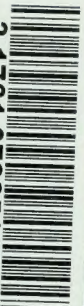
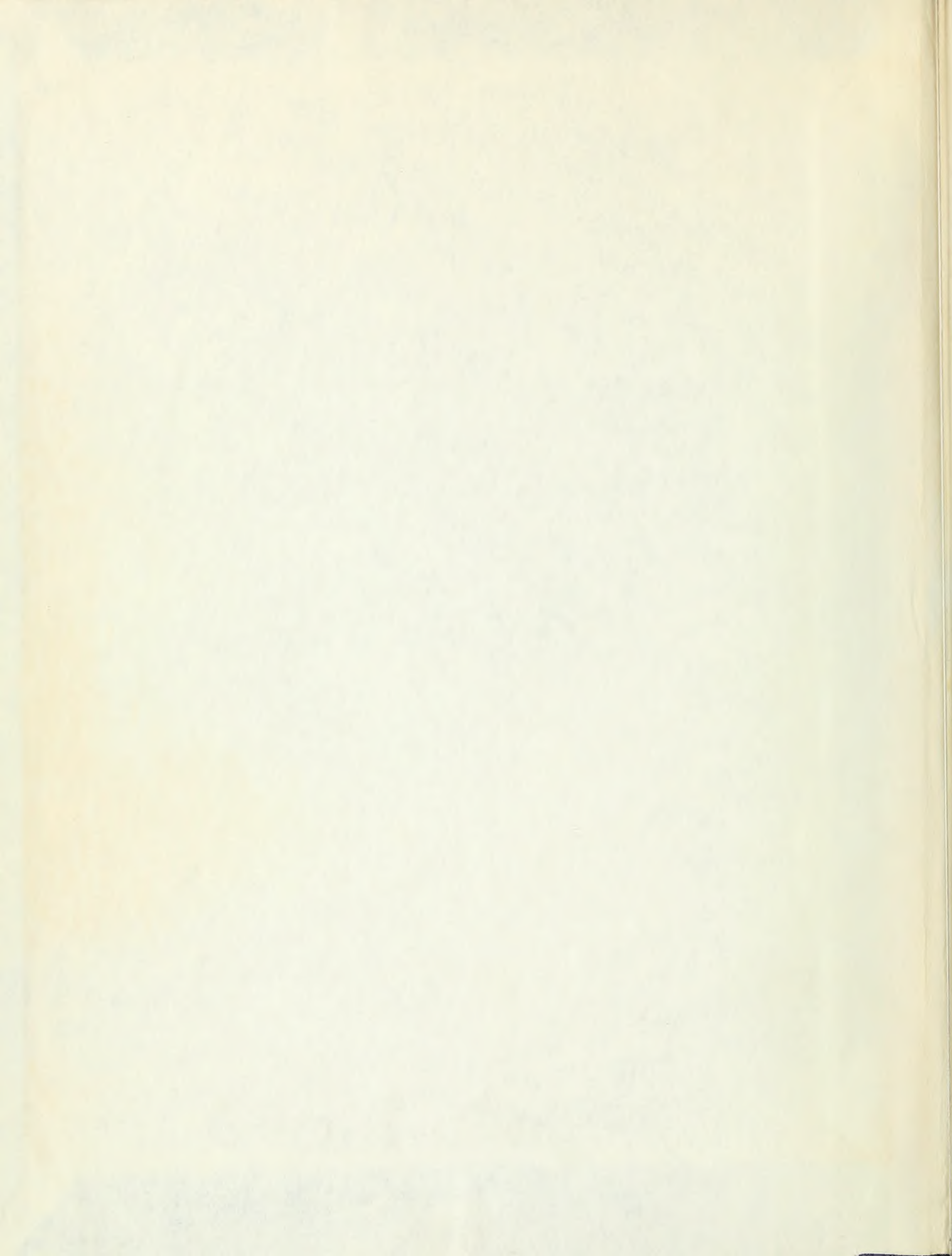


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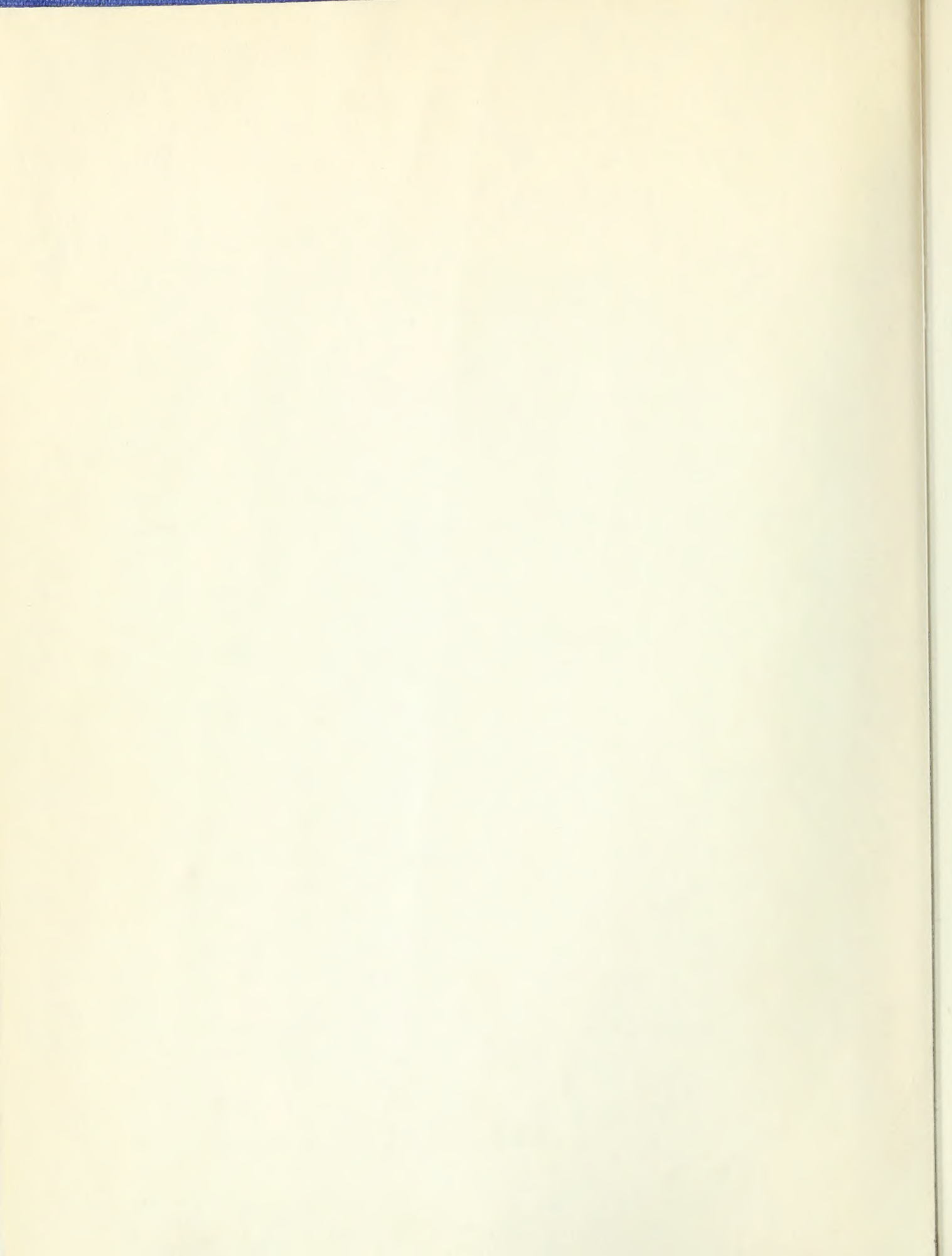








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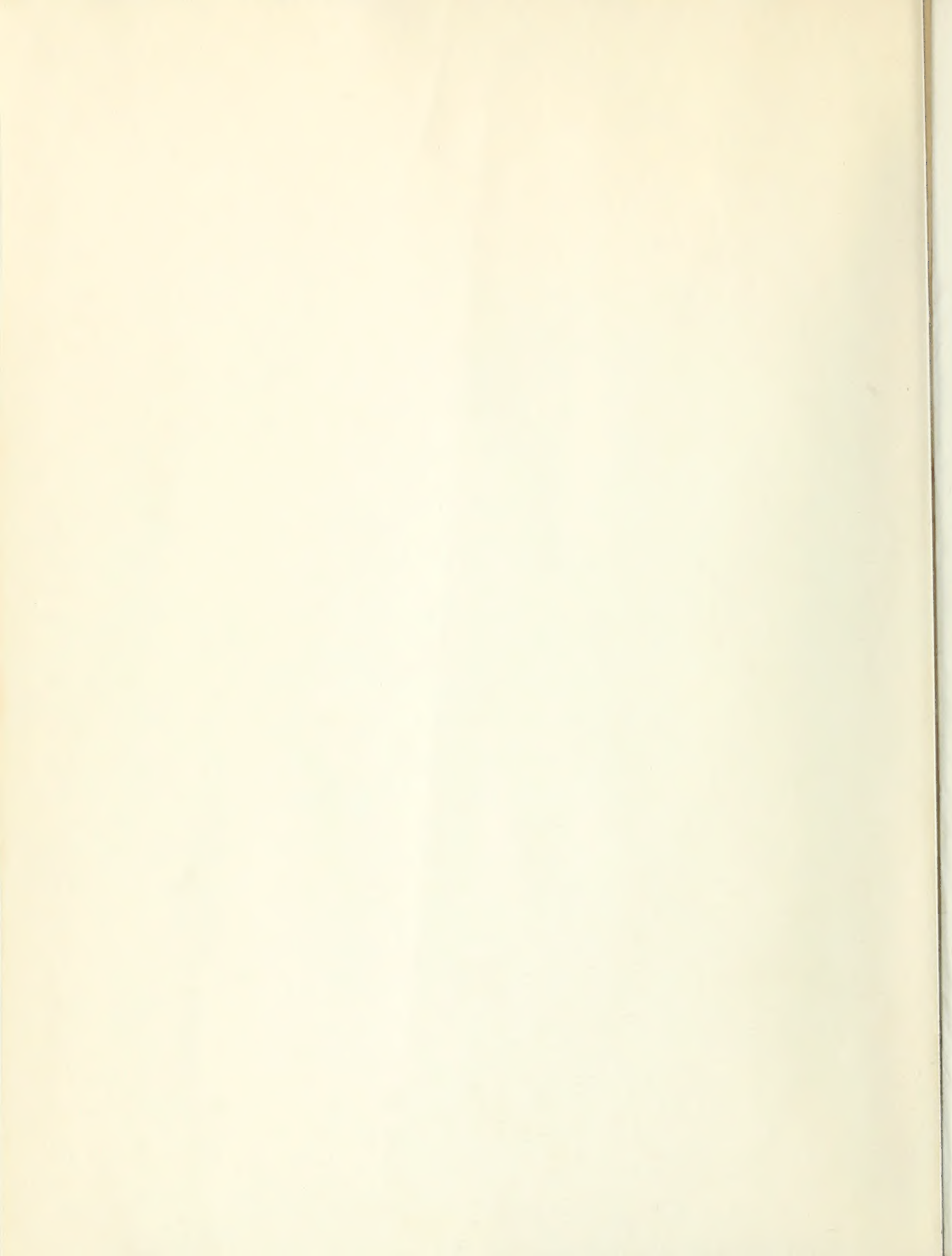


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PLATES. VOL. I.

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WITH THE ASSISTANCE OF  
EMINENT PROFESSIONAL GENTLEMEN.

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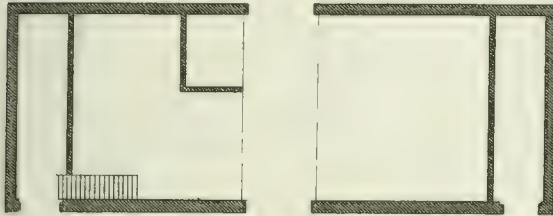
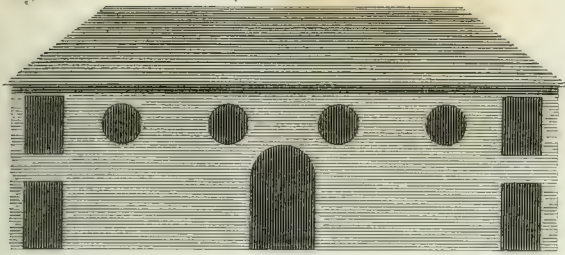
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Fig. 3. Improved Barn.



Common Barn.

Fig. 1.

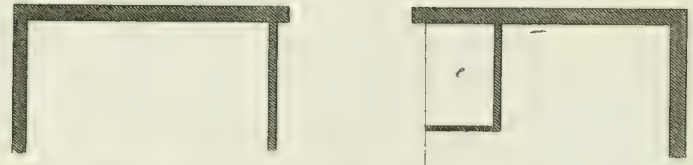
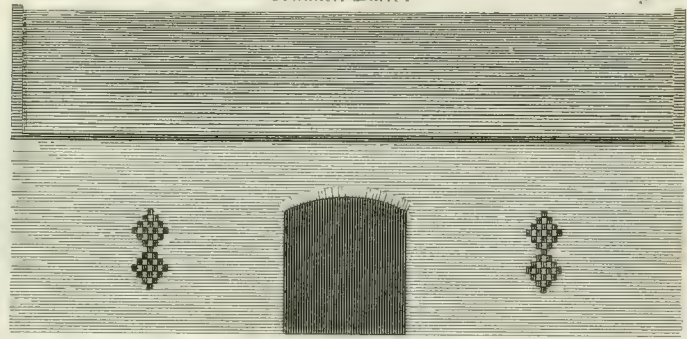
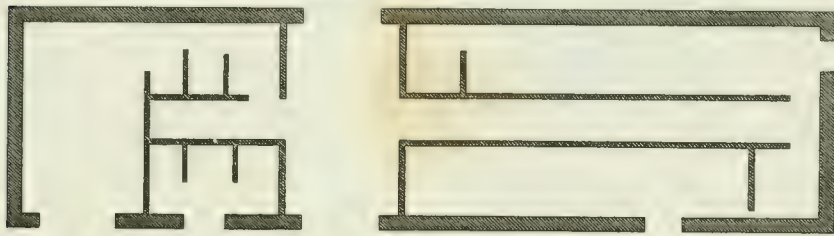
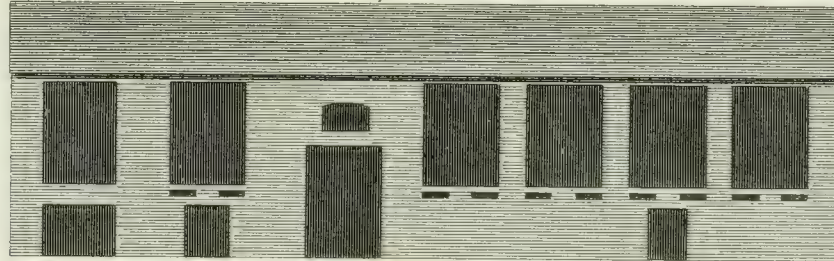


Fig. 4. Open Barn.



Double Barn.

Fig. 2.

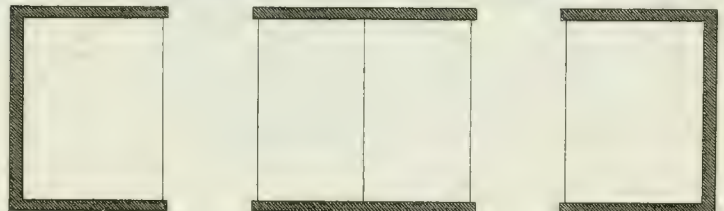
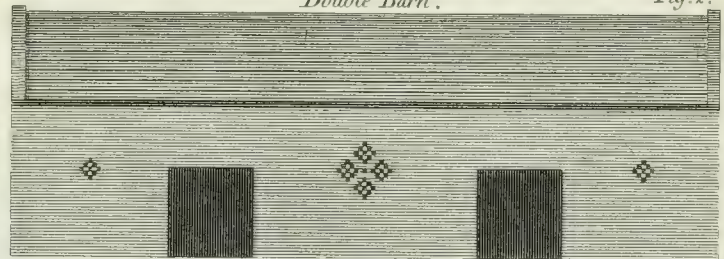
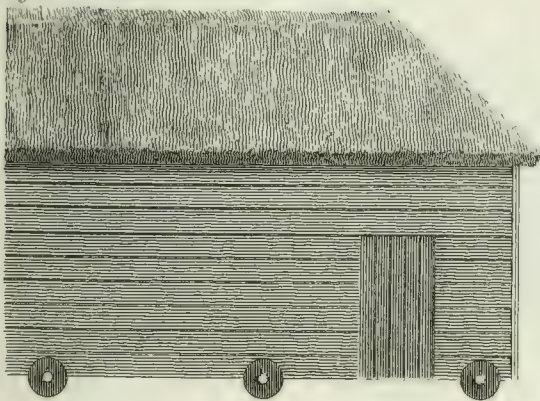


Fig. 5. Dutch moveable Barn.







BARN, AND THRESHING MACHINES.

Fig. 4.

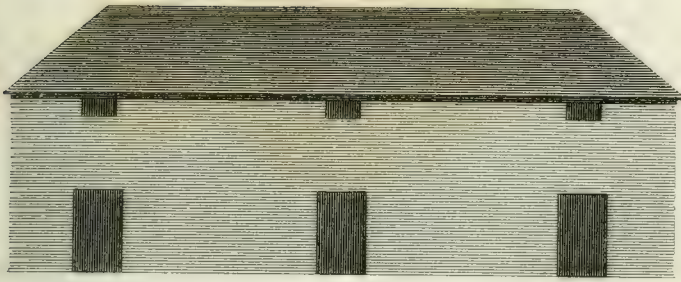


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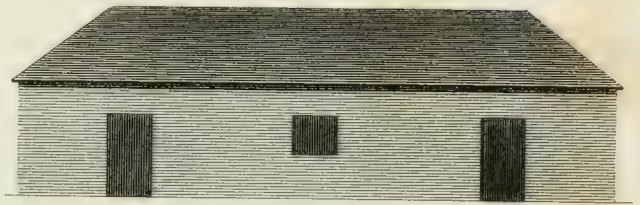


Fig. 5.

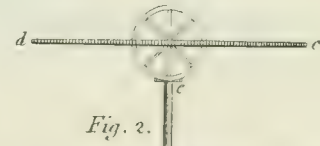
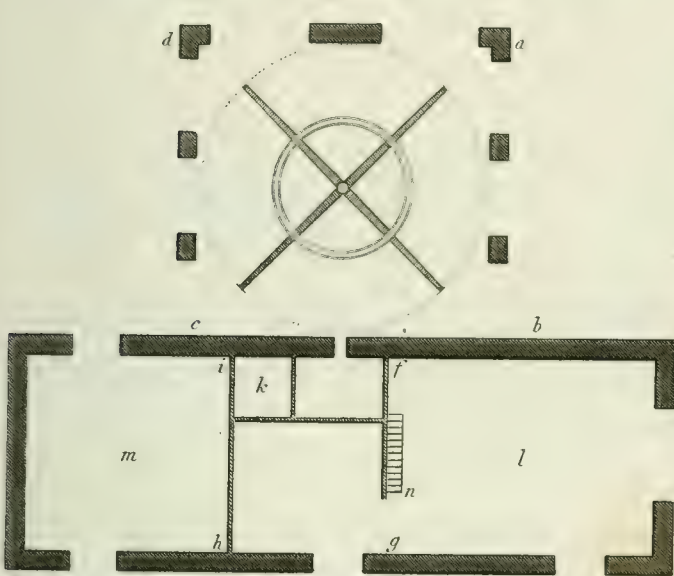


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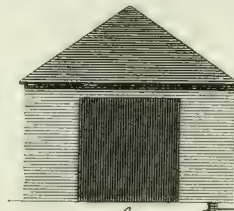
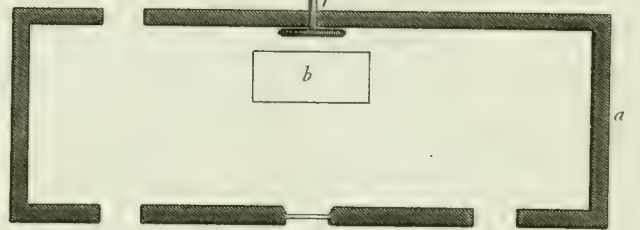


Fig. 3.



Scale for Fig. 1, 2, 3, 4, 5 & 6.

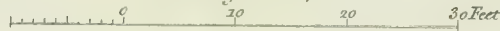


Fig. 6.

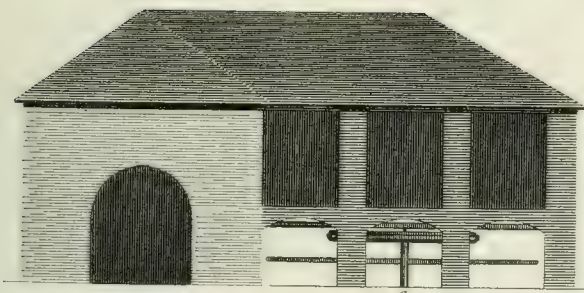
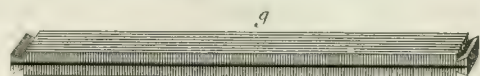
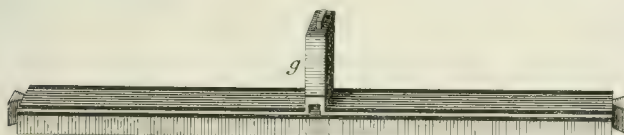
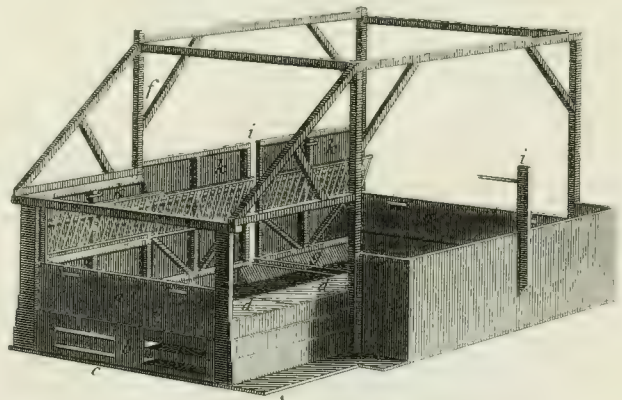


Fig. 7.



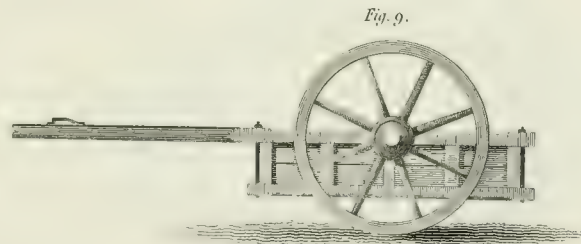
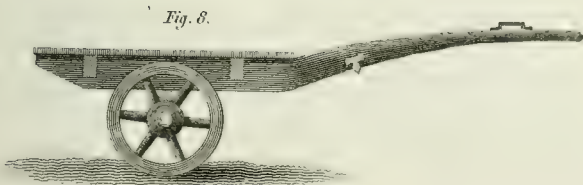
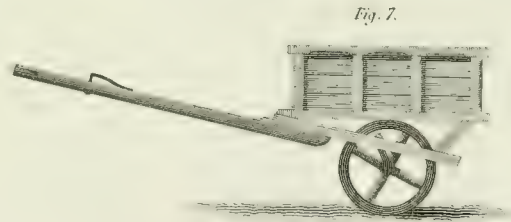
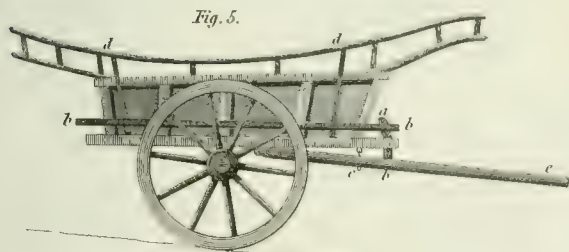
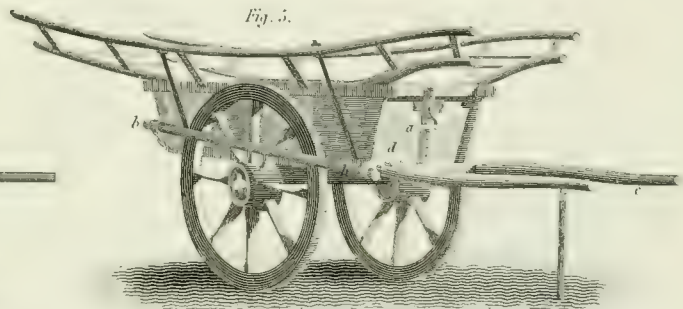
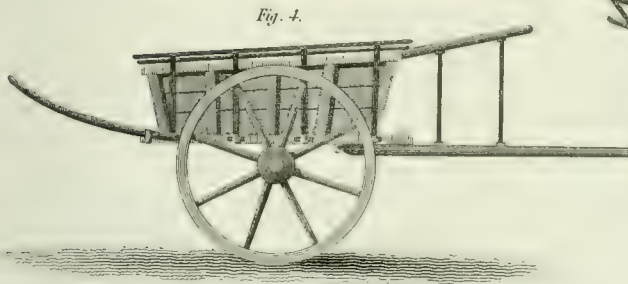
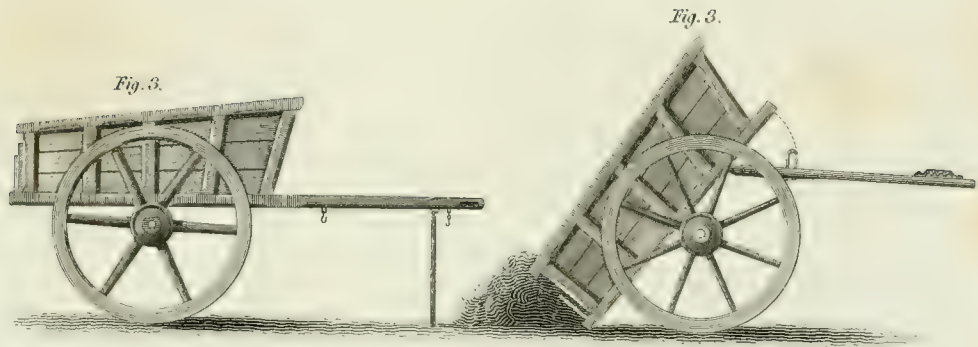
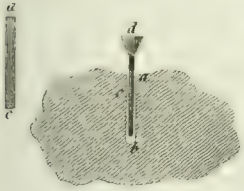
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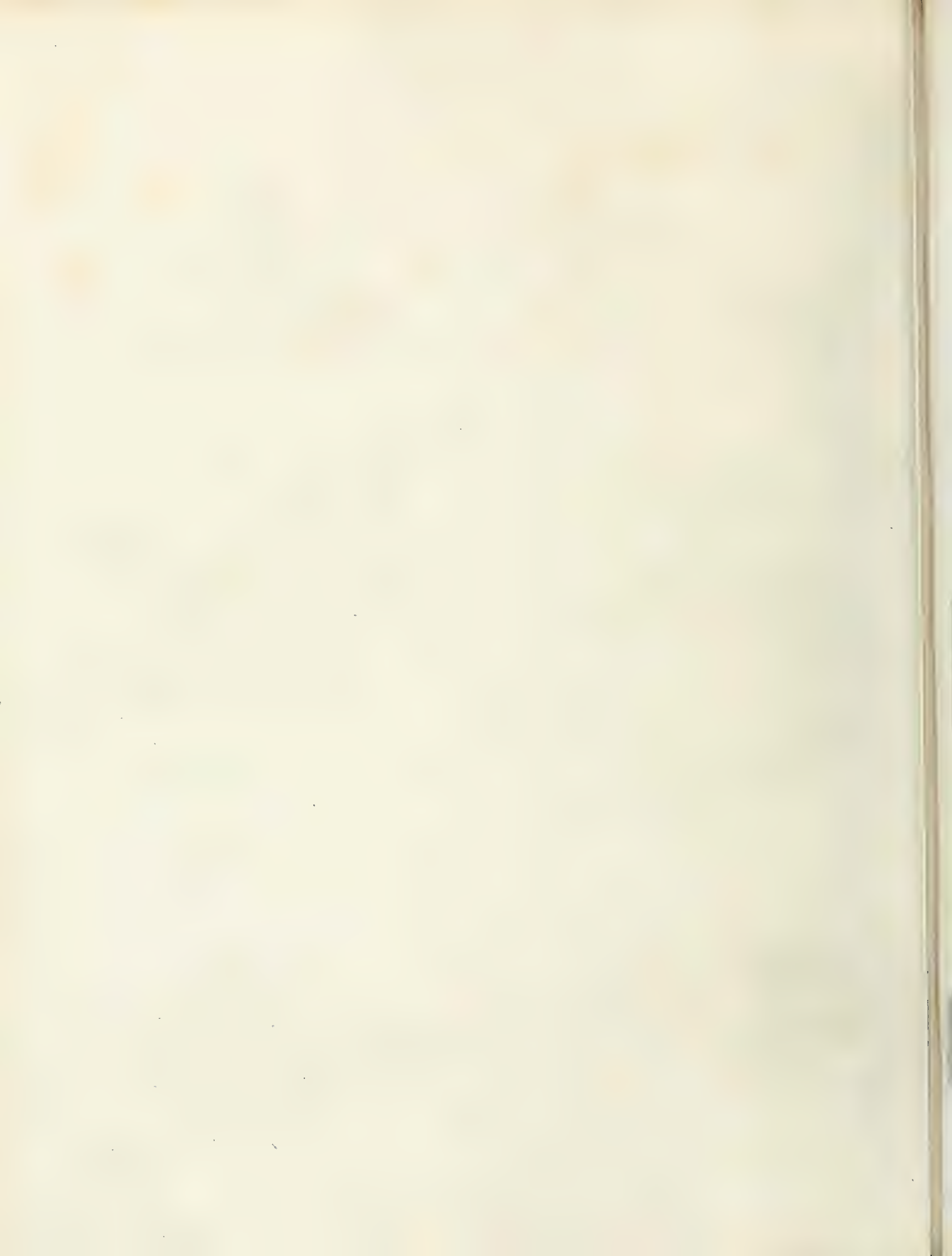




CARTS.

Fig. 1.  
Blasting Stones.







CALF PENS, CATTLE SHEDS & FEEDING HOUSES.

Fig. 1.

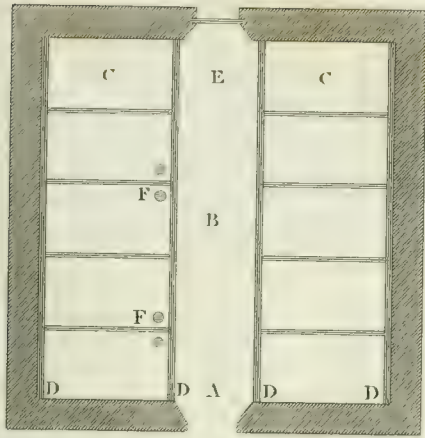
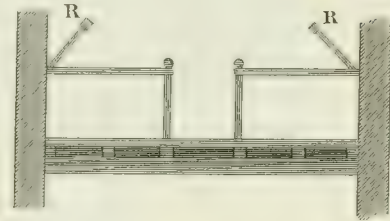
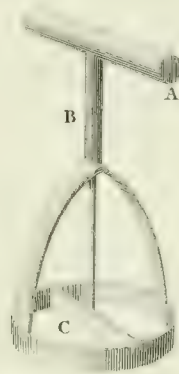


Fig. 2.



CURD CUTTER.



A The Handle made of Wood.  
 B Stock of Iron. Cutting part made Oval  
 — and it has 1, 2, or 3, cutting pieces as C.

Fig. 4.

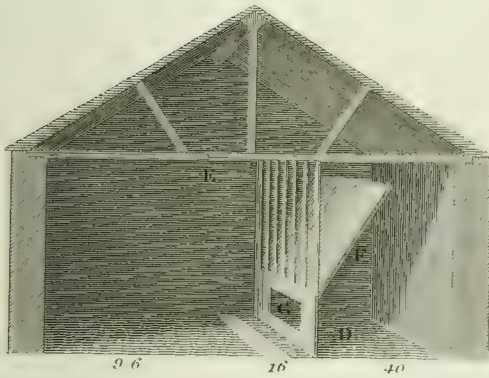


Fig. 3.

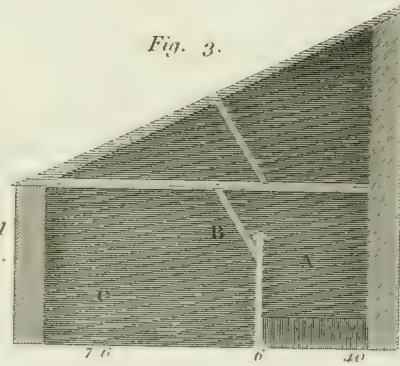


Fig. 5.

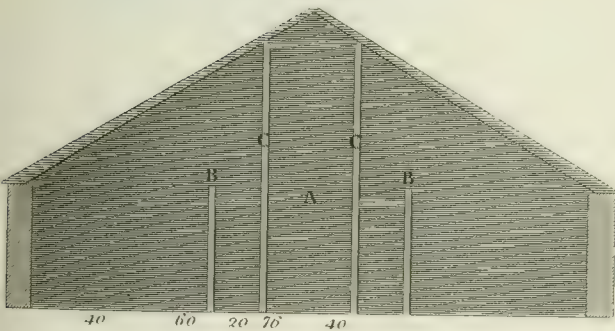
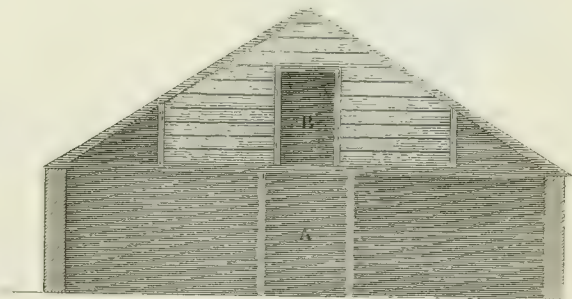
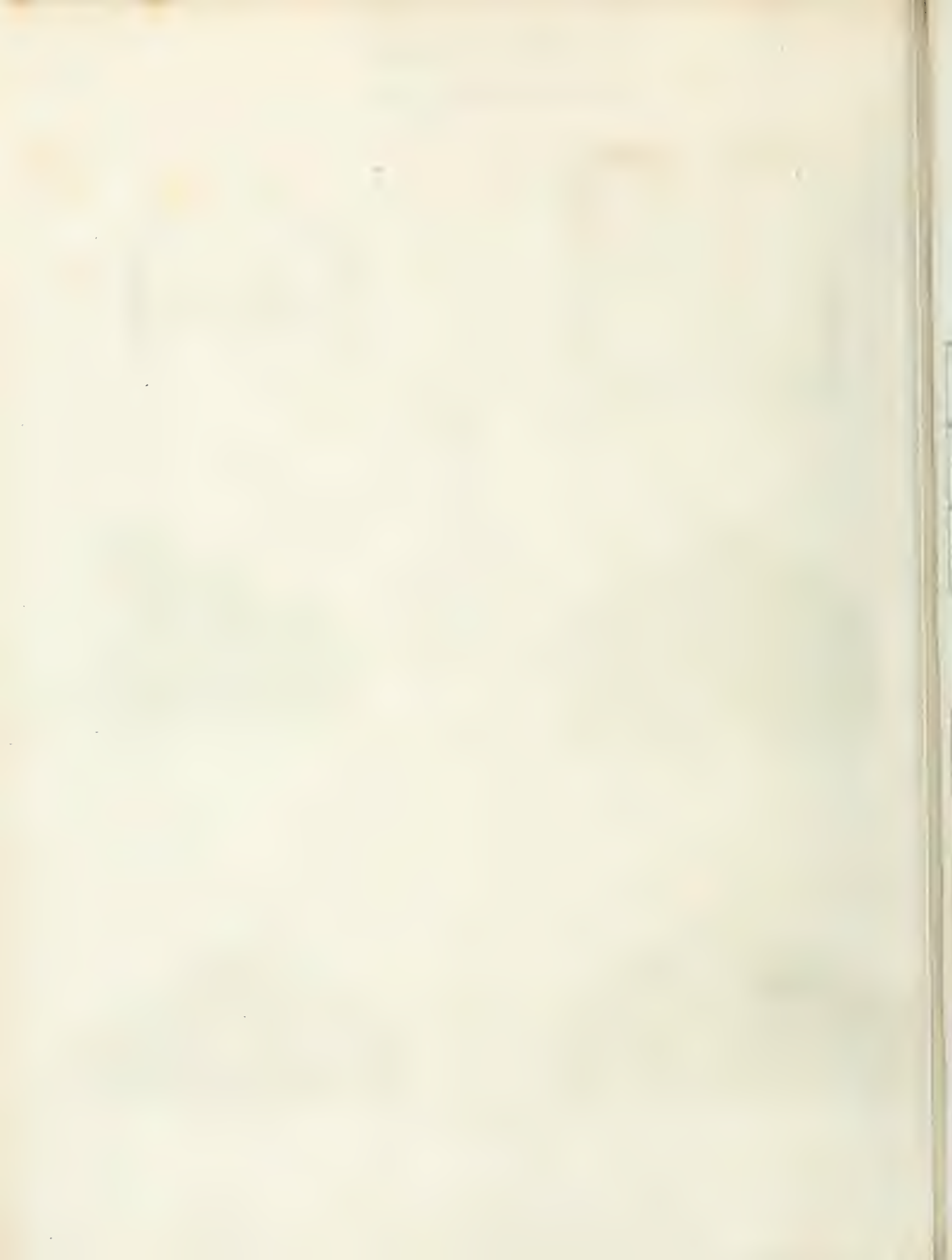


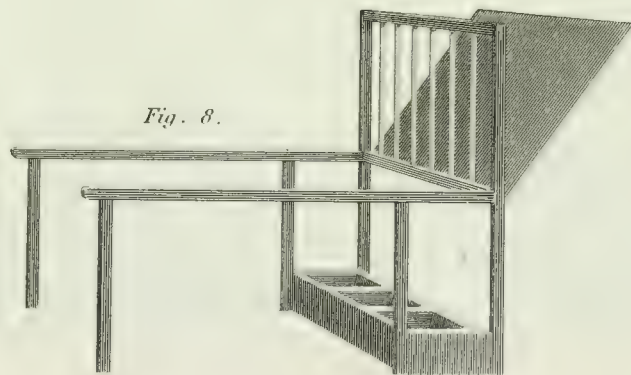
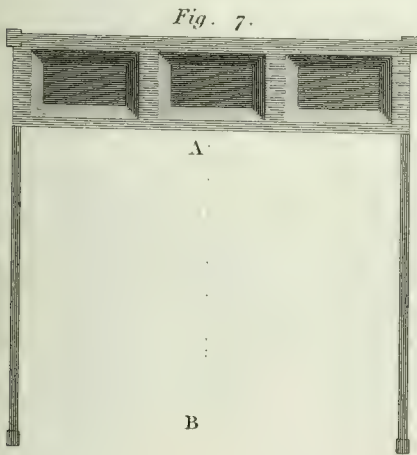
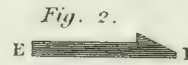
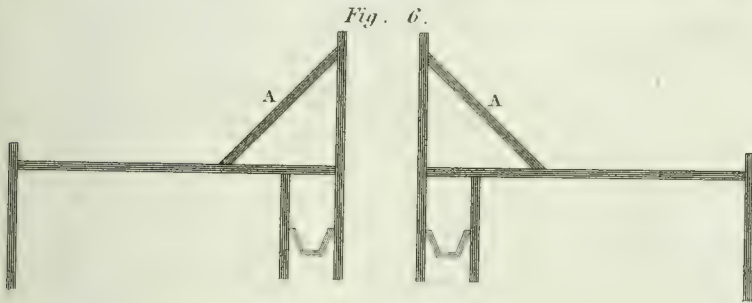
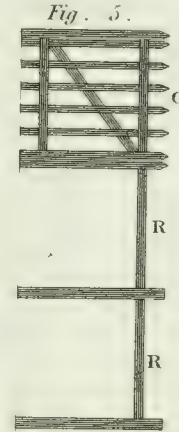
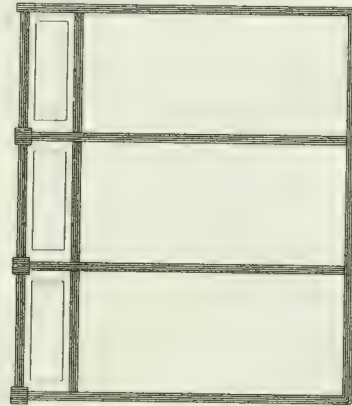
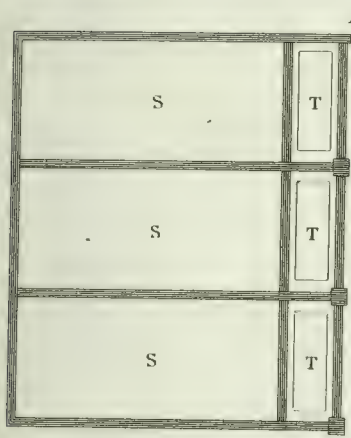
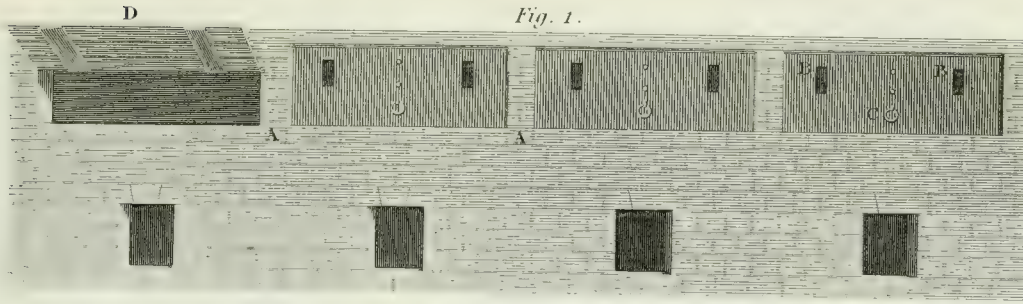
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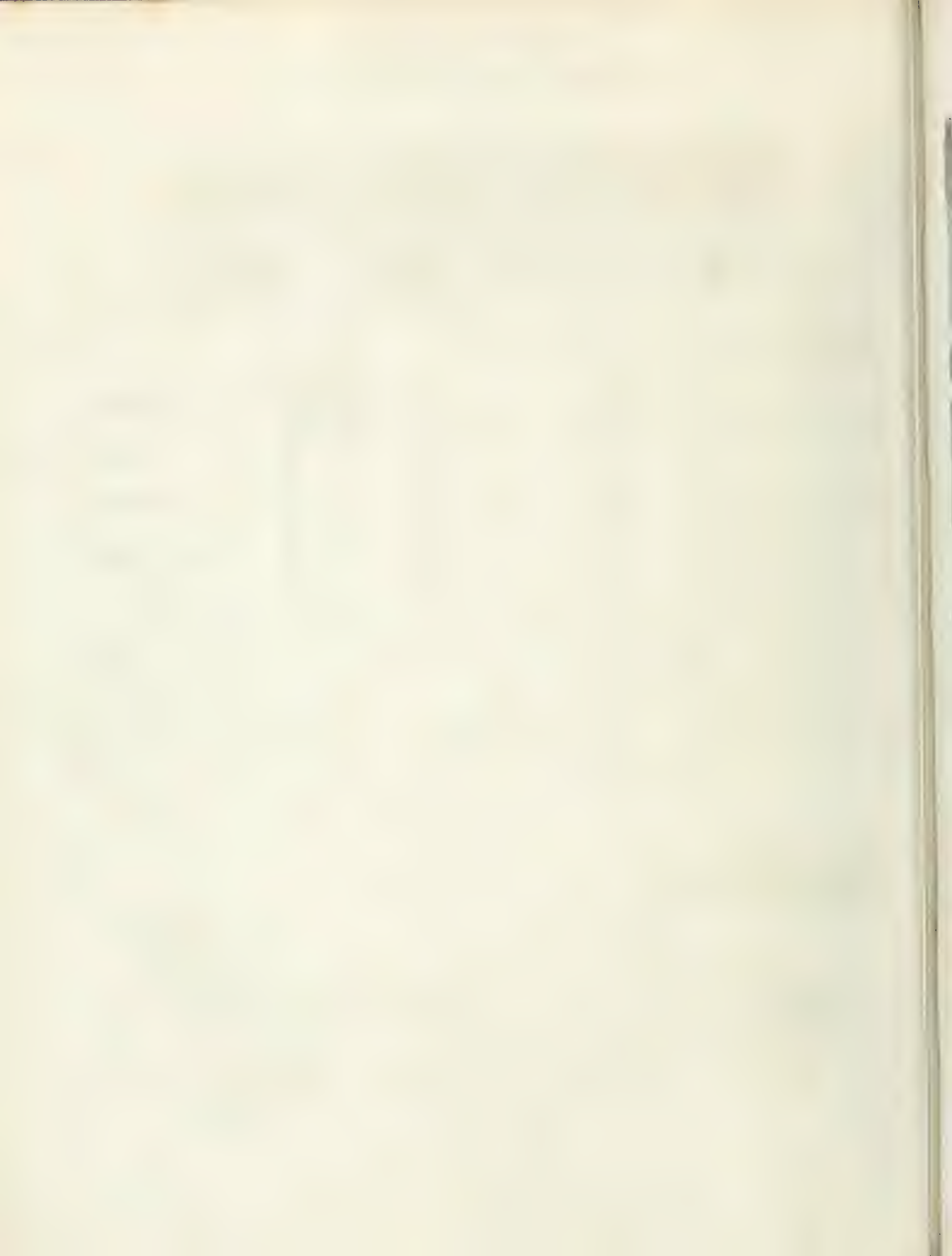






INTERNAL PARTS OF CATTLE SHEDS & FEEDING HOUSES.





FARM COTTAGES.

Fig. 1.

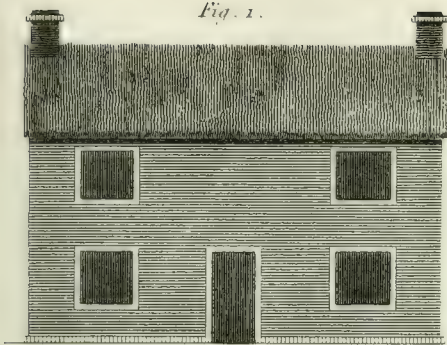


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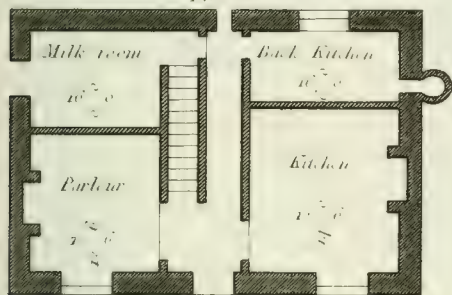


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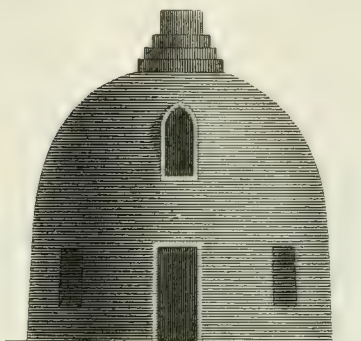


Fig. 6.

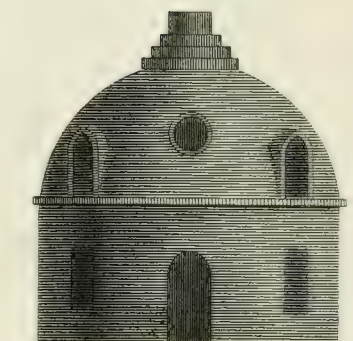


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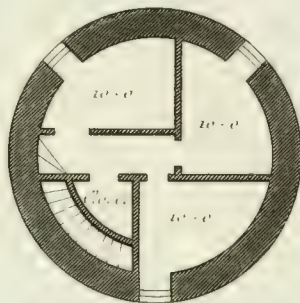


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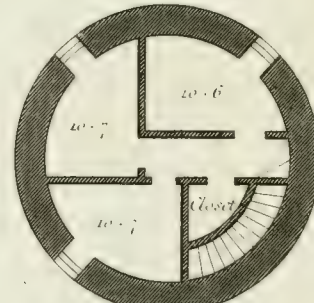


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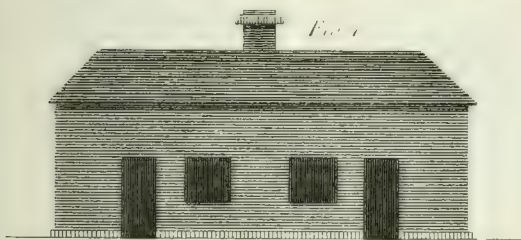


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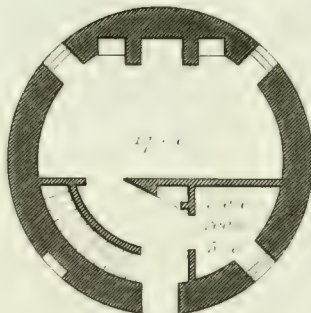
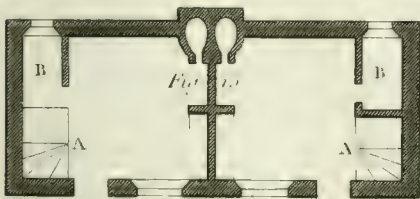
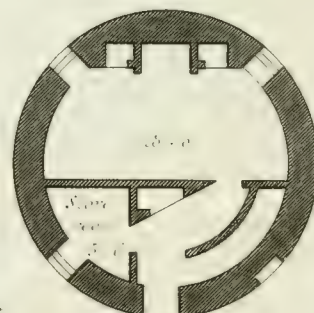


Fig. 9.



Scale of Feet.

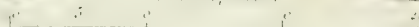


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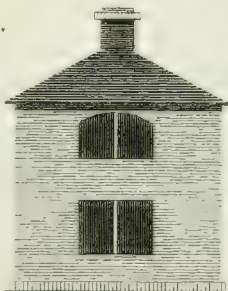


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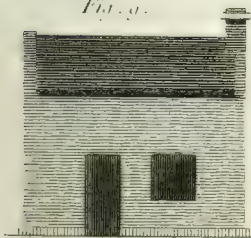


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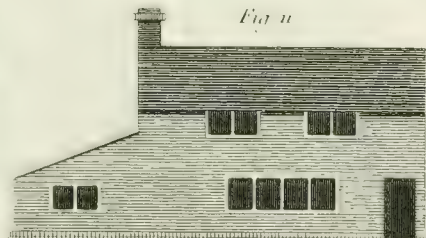


Fig. 14.







ORNAMENTAL COTTAGES.

Fig. 3.

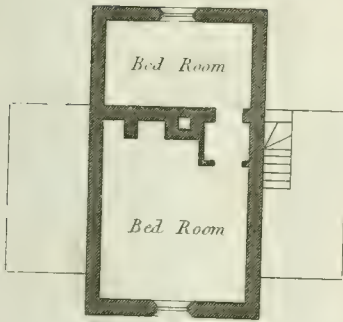


Fig 1.



Fig. 2.

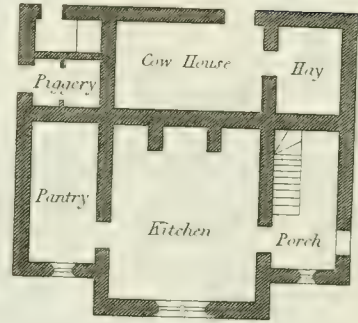


Fig. 6

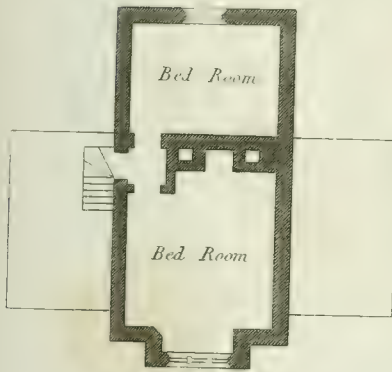


Fig 4



Fig 5

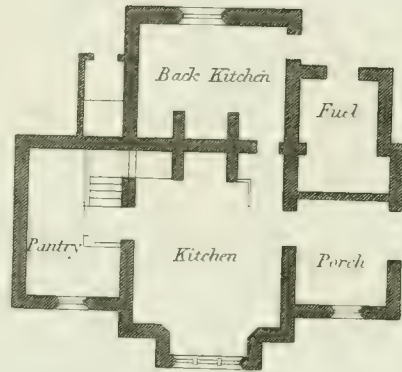


Fig. 7.



Fig. 8.

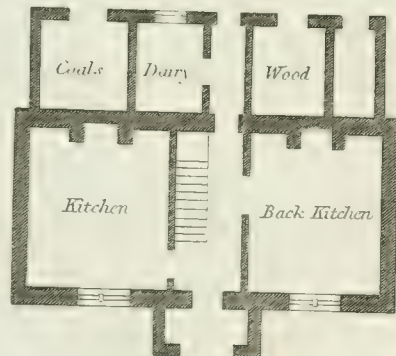
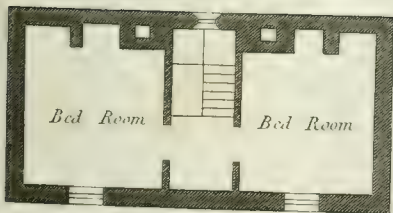
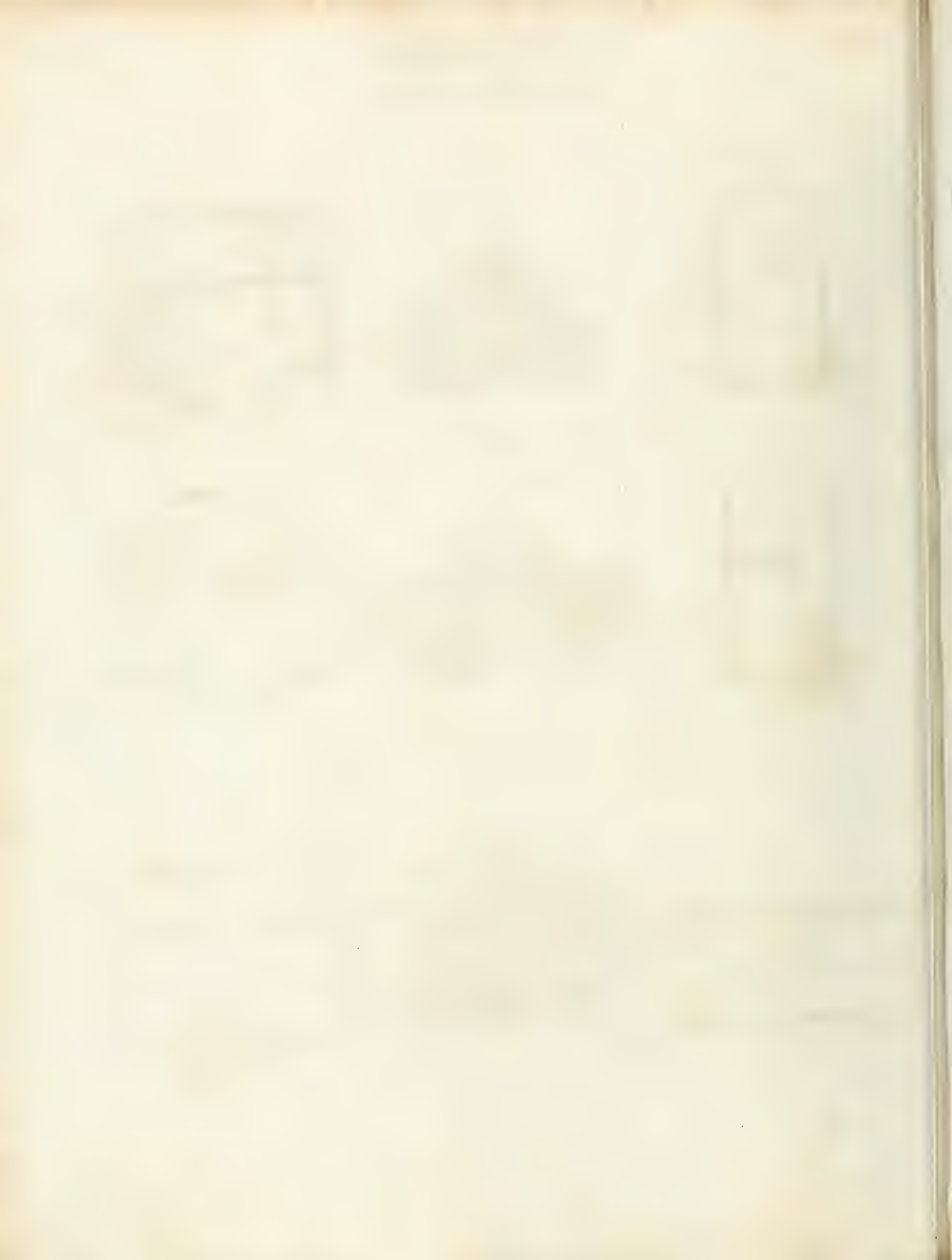


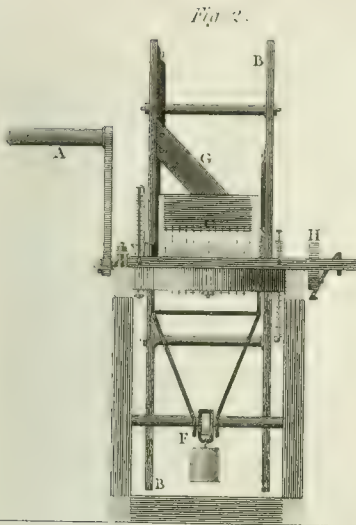
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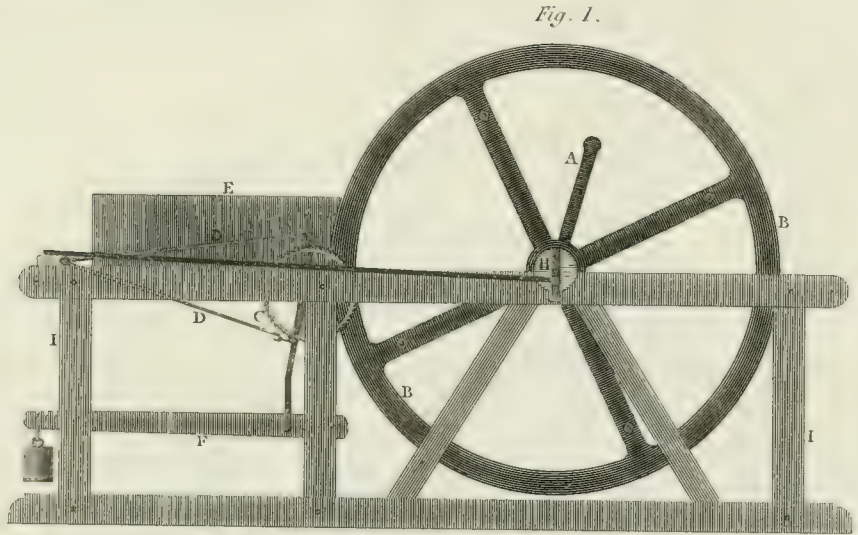




*M<sup>r</sup> Salmon's CHAFF CUTTER, as made by M<sup>r</sup> Rowntree.*



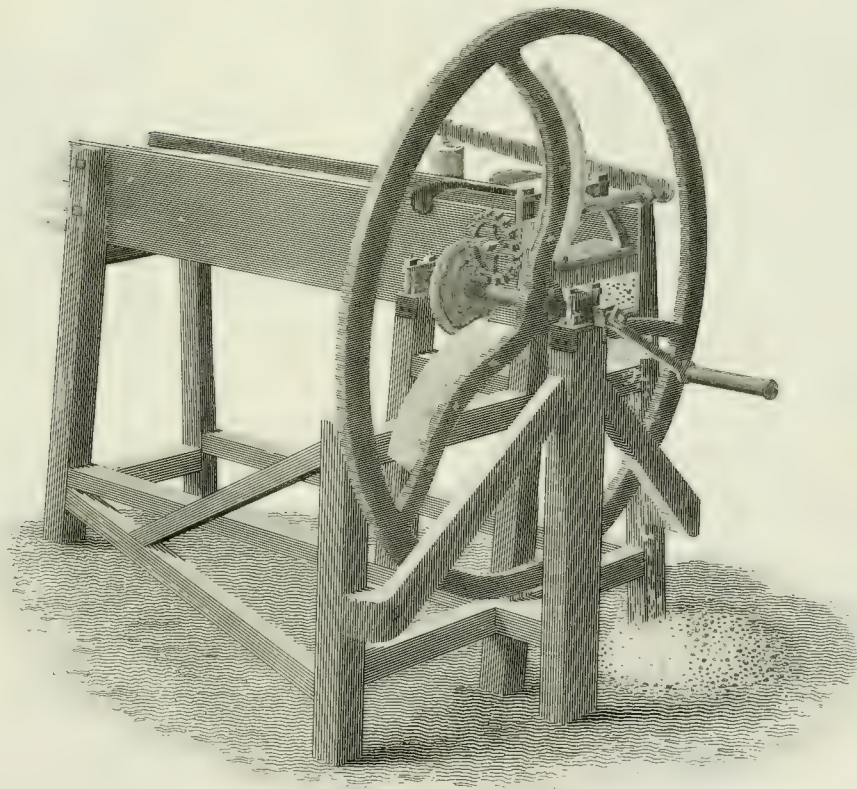
*Elevation of the End.*



*Elevation taken sideways.*

*Fig. 3.*

*M<sup>r</sup> M<sup>c</sup> Dougal's Chaff Cutter.*



*In viewing Fig. 3. the eye of the spectator should be placed at 12 Inc. distance from*



CHEESE PRESS,  
AND CHURNS.

Fig. 2.

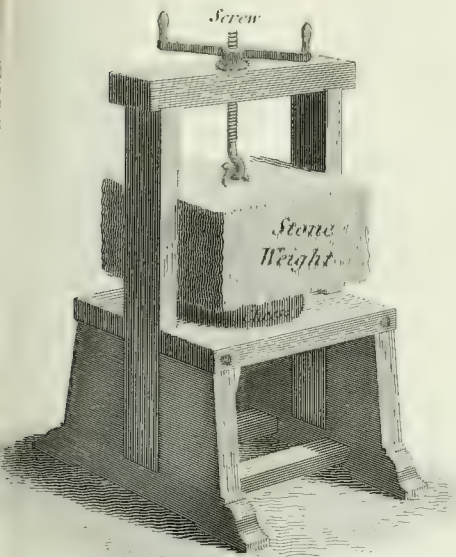
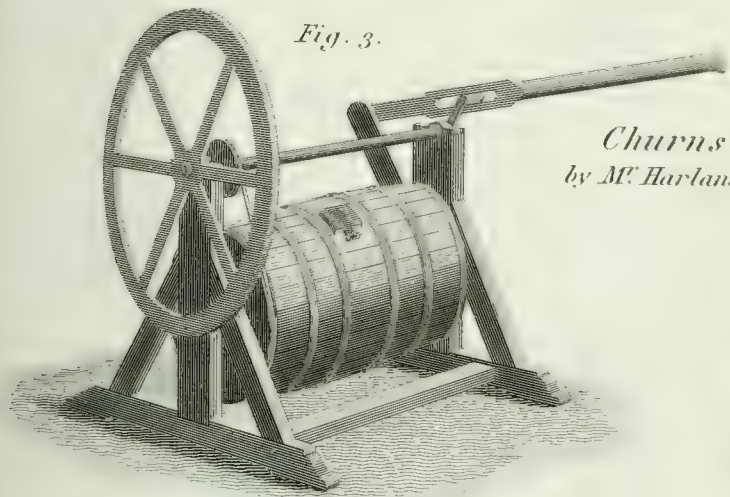


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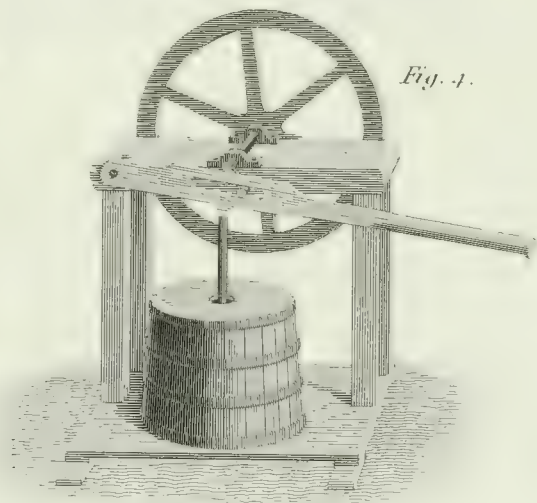


Fig. 3.



Churns  
by M<sup>r</sup>. Harland.

Fig. 4.



by M<sup>r</sup>. Rowntree.

Fig. 7.

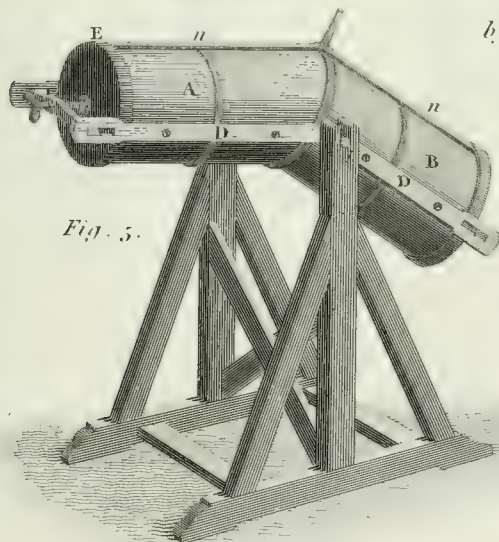
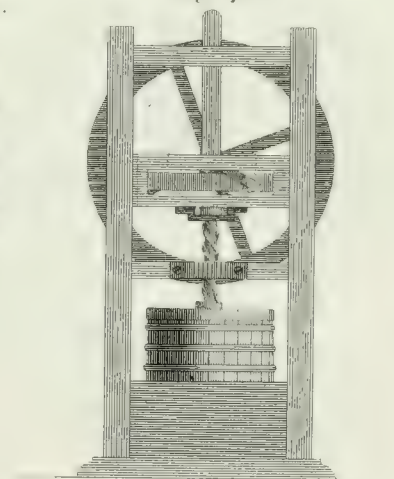


Fig. 5.

Fig. 6.





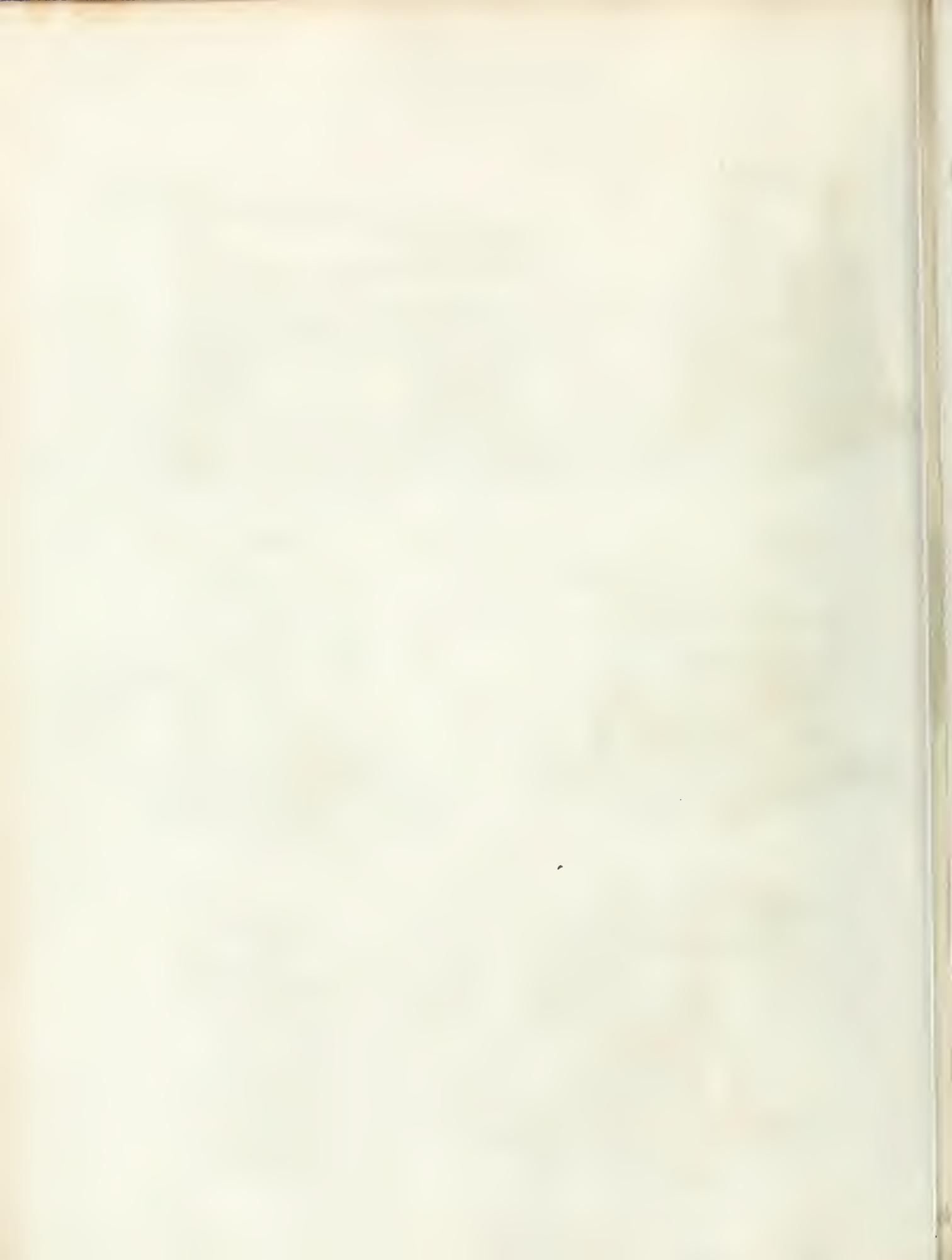
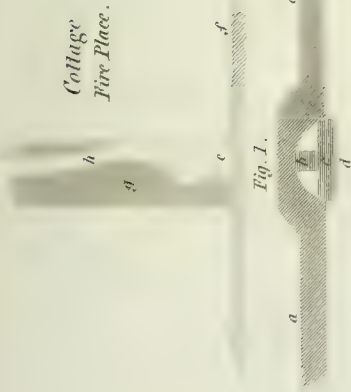


Fig. 2.



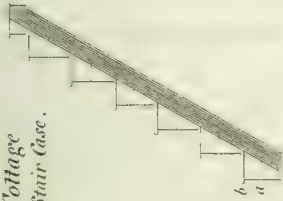
Collage Fire Place.

Fig. 3.



Collage Stair Case.

Fig. 4.

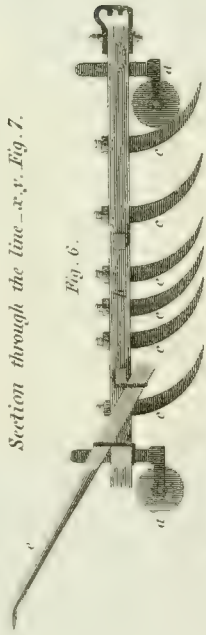


Collage Bed Room.

Fig. 5.

MR. AMOS'S Couch Grass Drag.

Section through the line x-y, Fig. 7.



MR. AMOS'S Couch Grass Rake.

Section through the line n-o, Fig. 10.

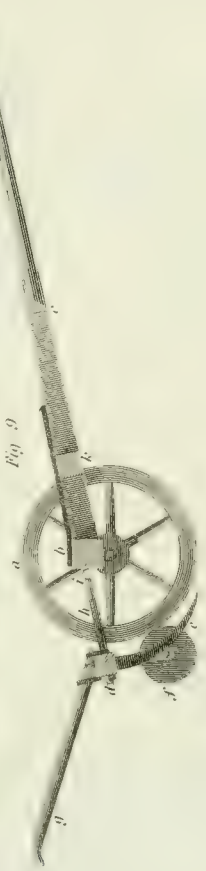
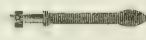
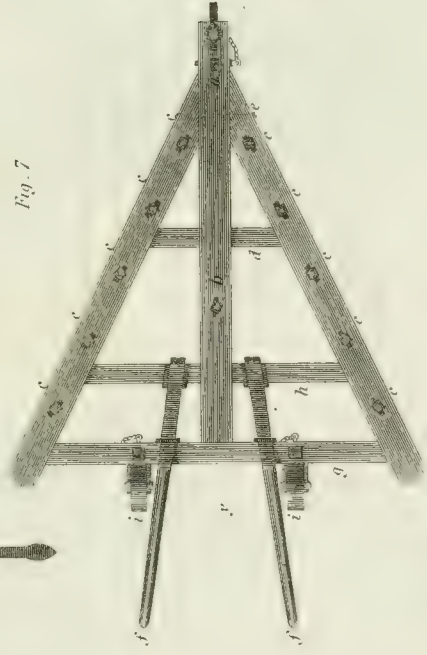


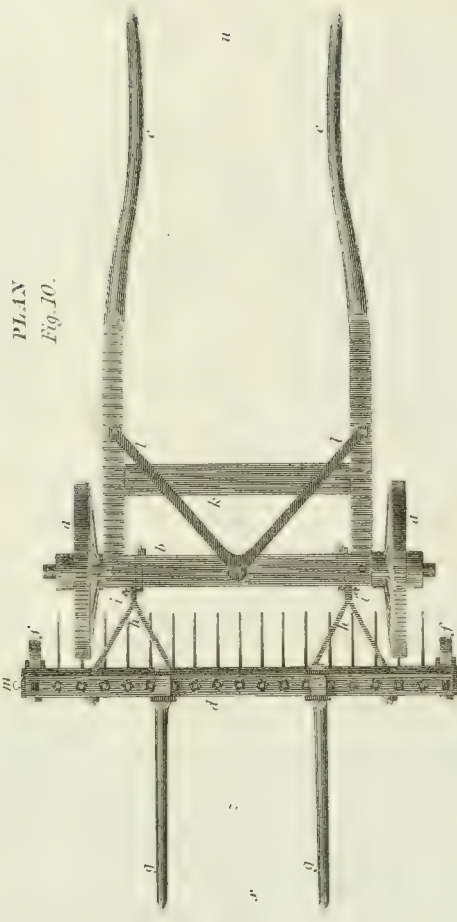
Fig. 8.



PLAN Fig. 7



PLAN Fig. 10.



Scale of Feet.



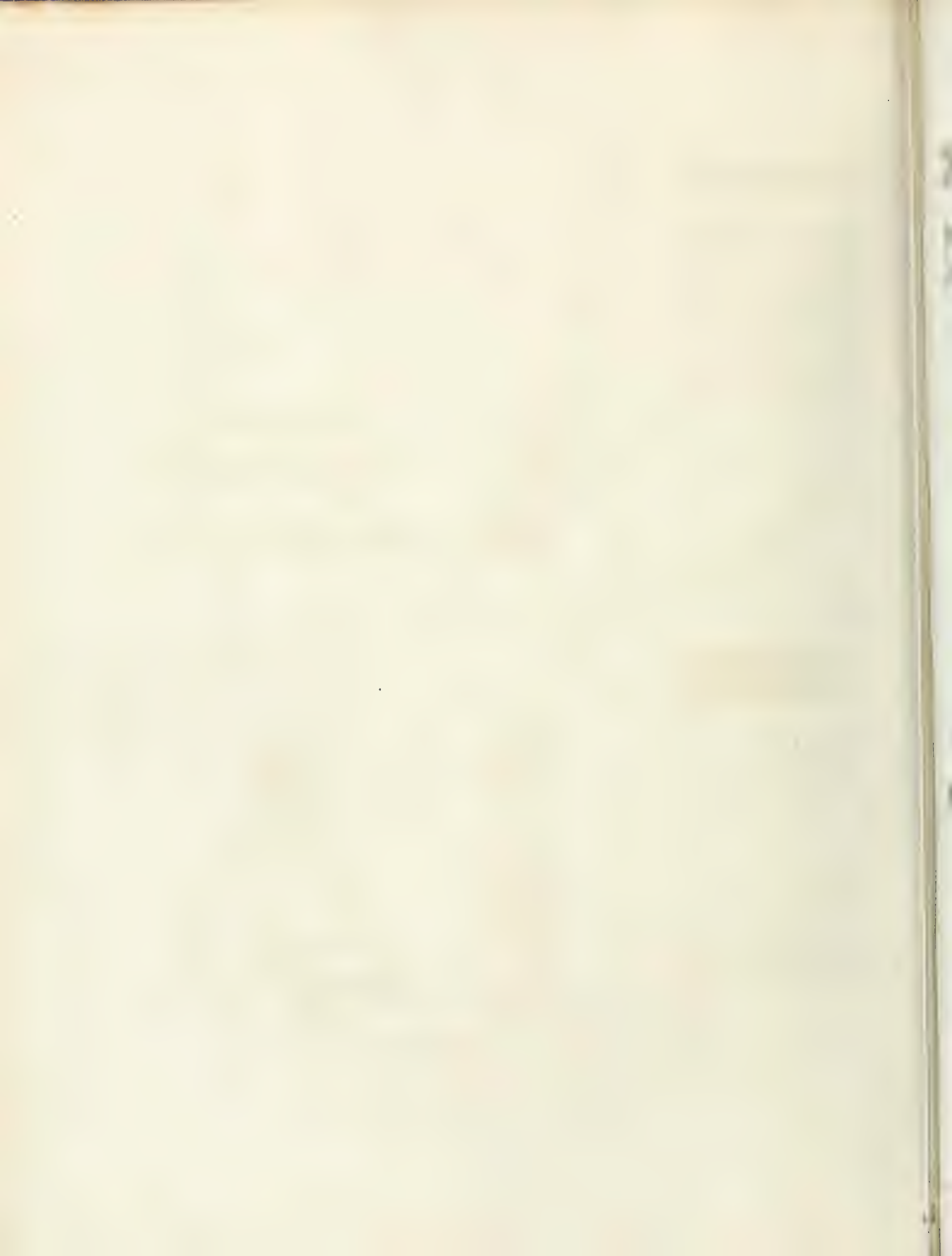




Fig. 2.

Plan.

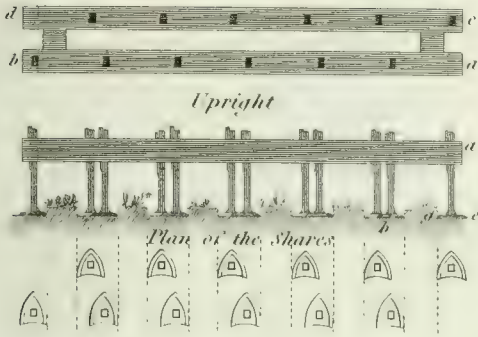


Fig. 1.

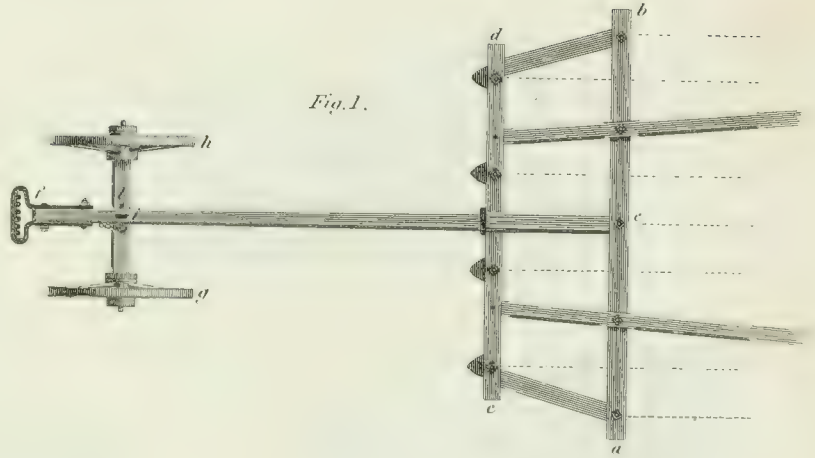


Fig. 4.

M<sup>r</sup> C. Western's Double Cultivator.

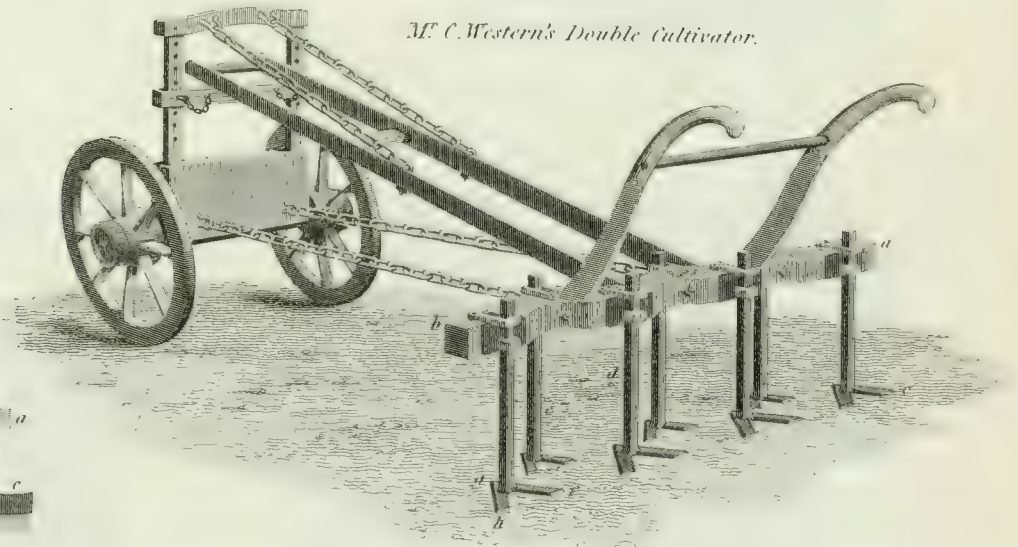


Fig. 3.

M<sup>r</sup> Roger's Bean Cultivator.

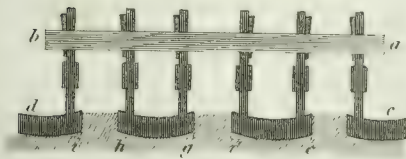
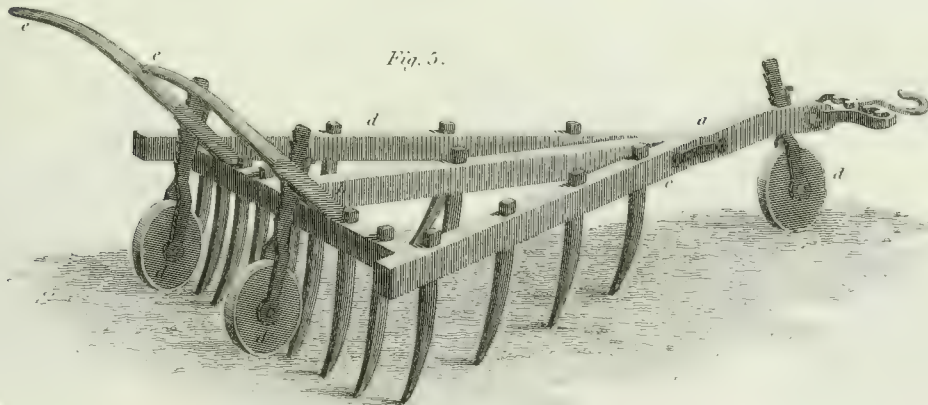


Fig. 5.





EMBANKMENTS.

Fig 1.

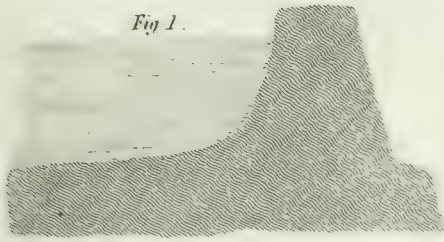


Fig 2



Fig 3.

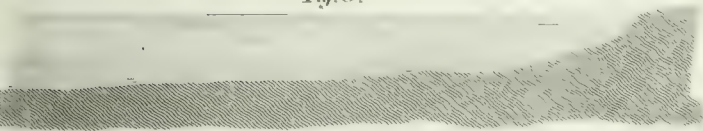


Fig 4

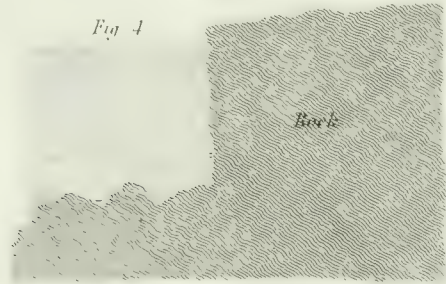


Fig 5.



Fig 7.



Fig 6.

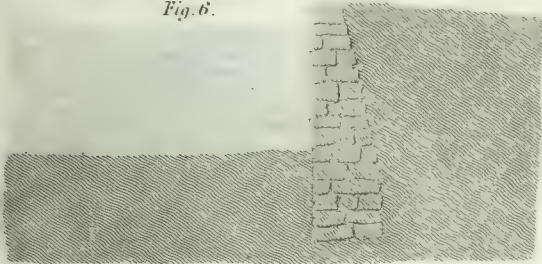
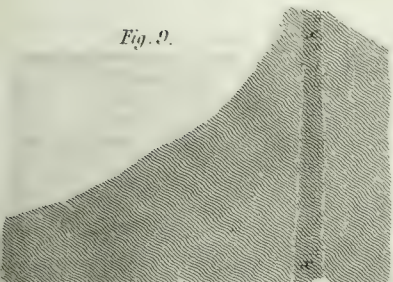


Fig 8.



Fig 9.



Clayey Substratum.

Fig 10.

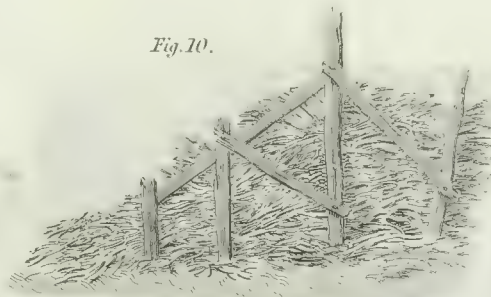
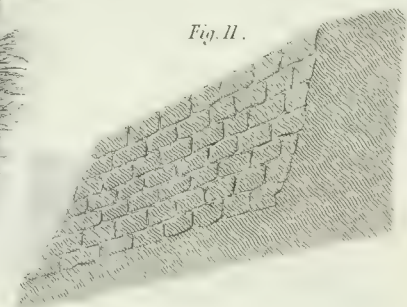
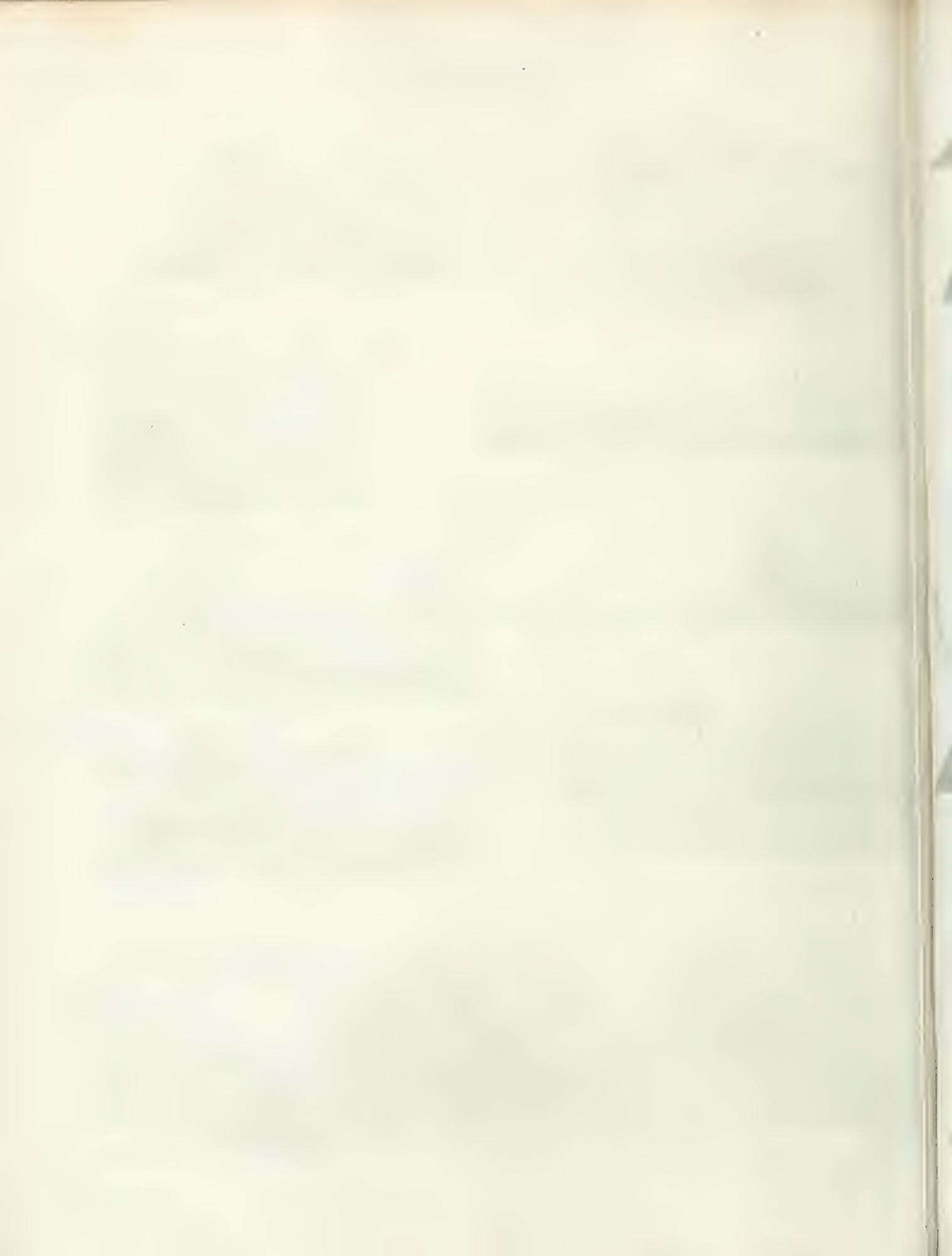


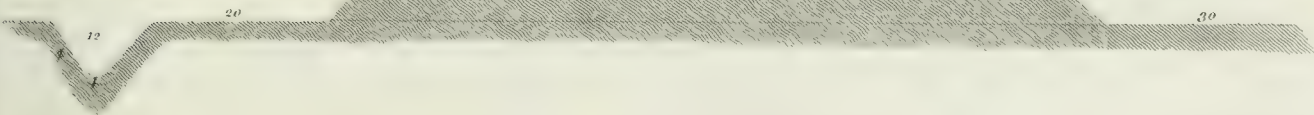
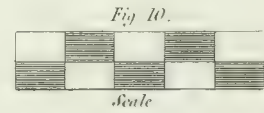
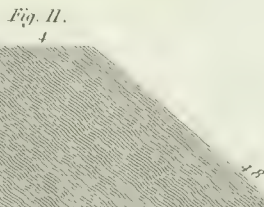
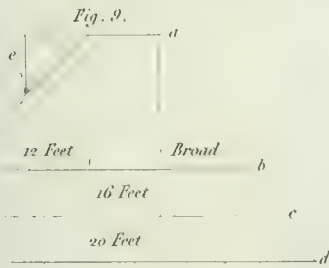
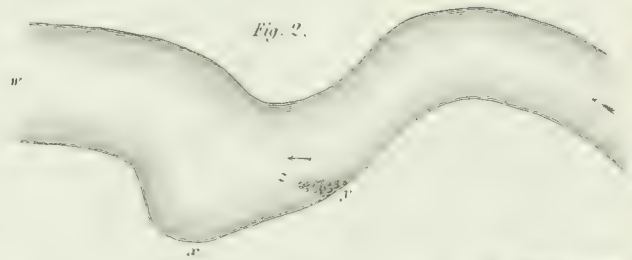
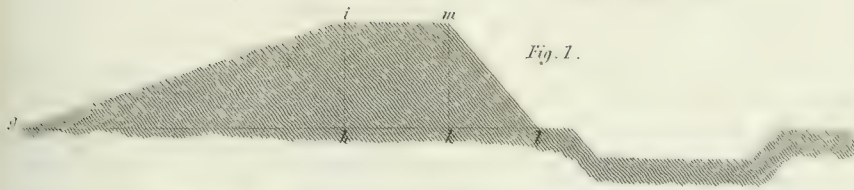
Fig 11.

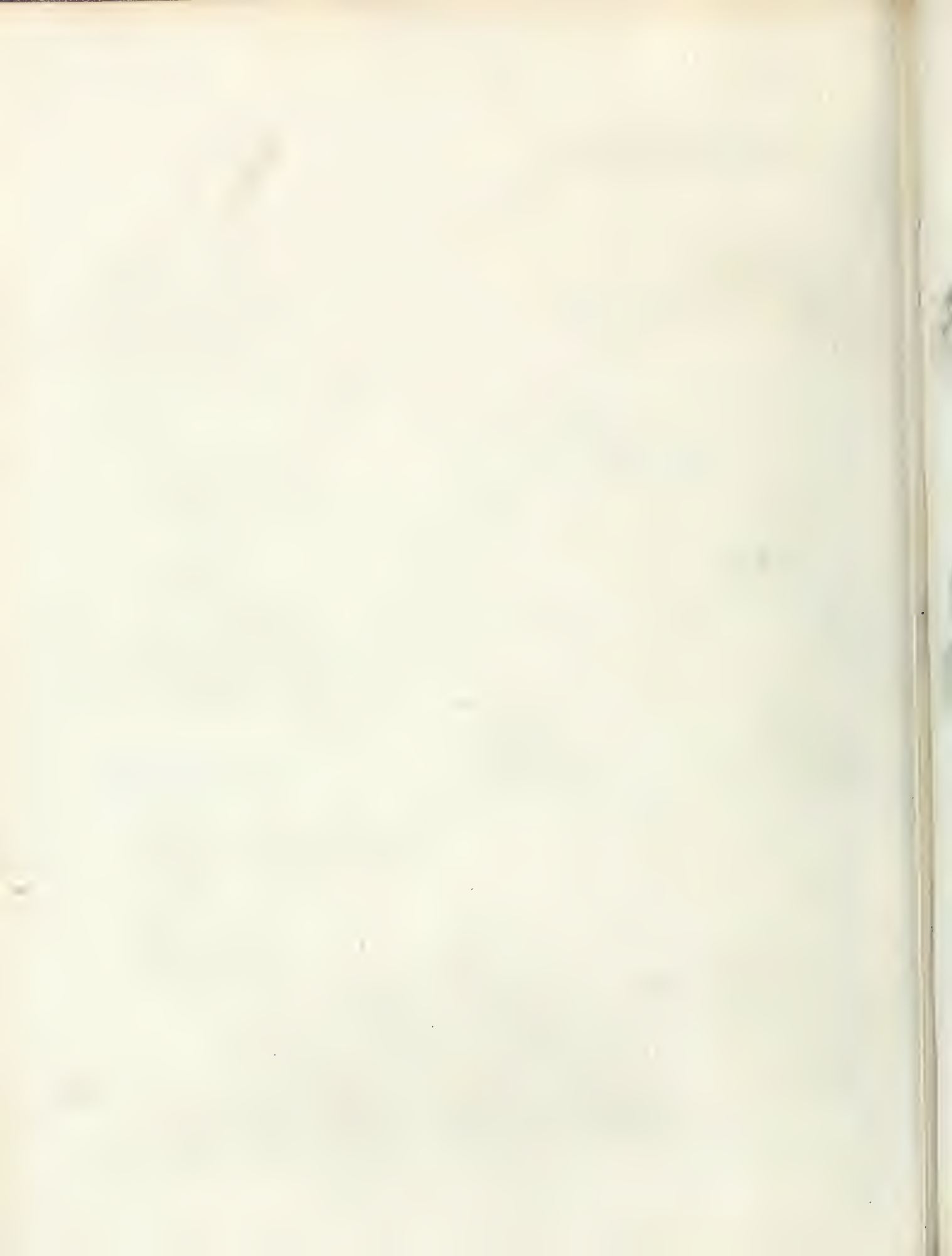






AGRICULTURE.  
EMBANKMENTS.







CYDER MILL and PRESS.

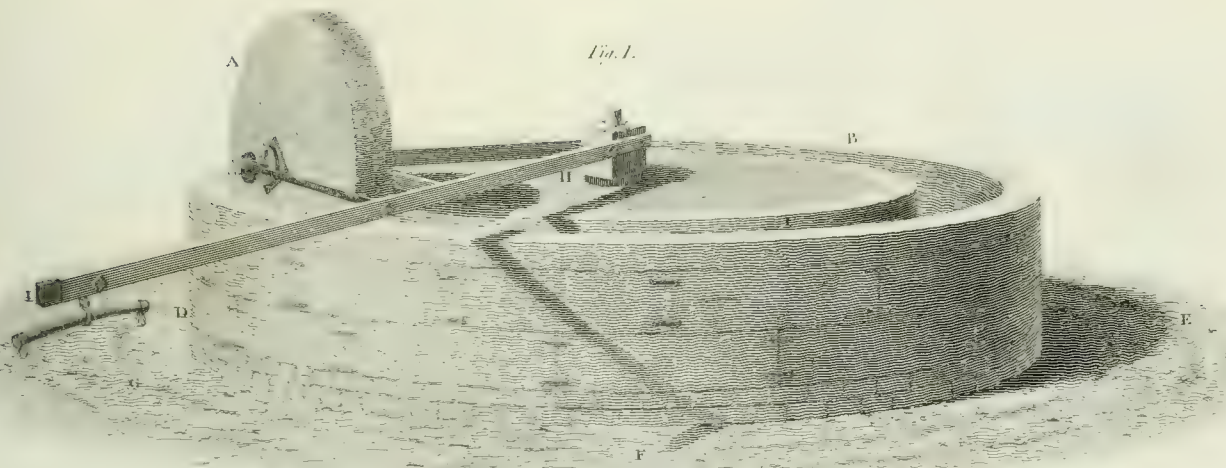


Fig. 5.

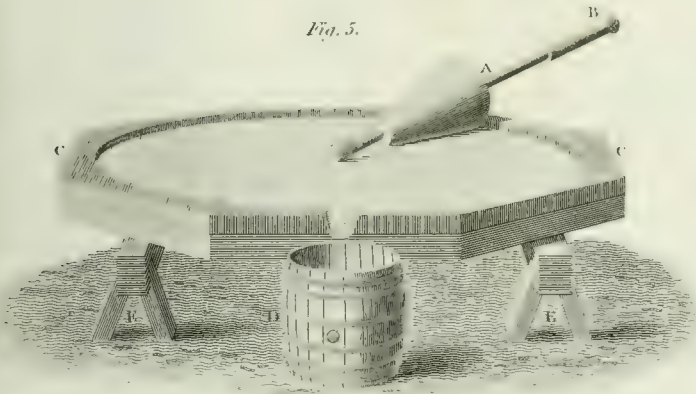


Fig. 2.

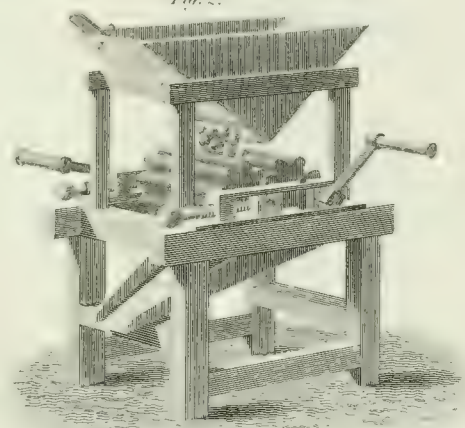


Fig. 1.

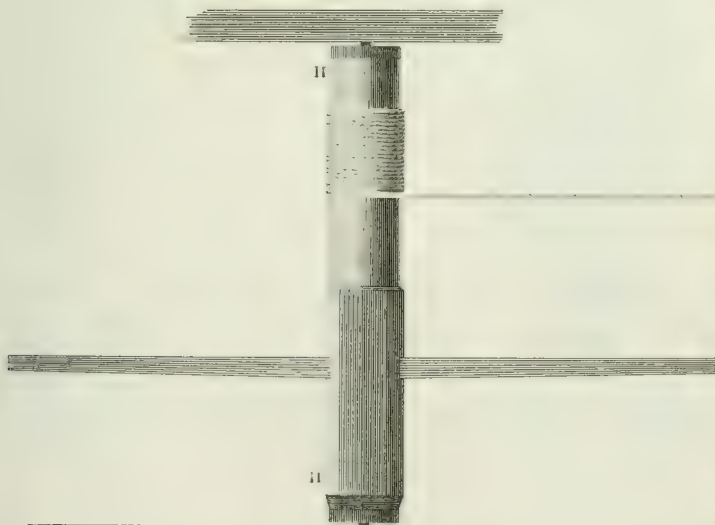
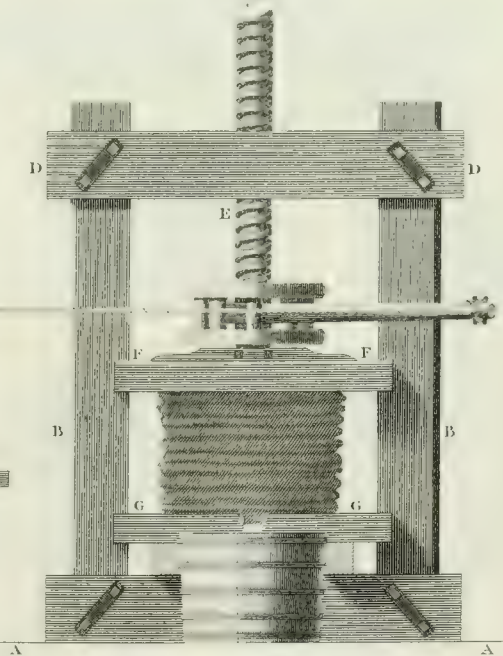
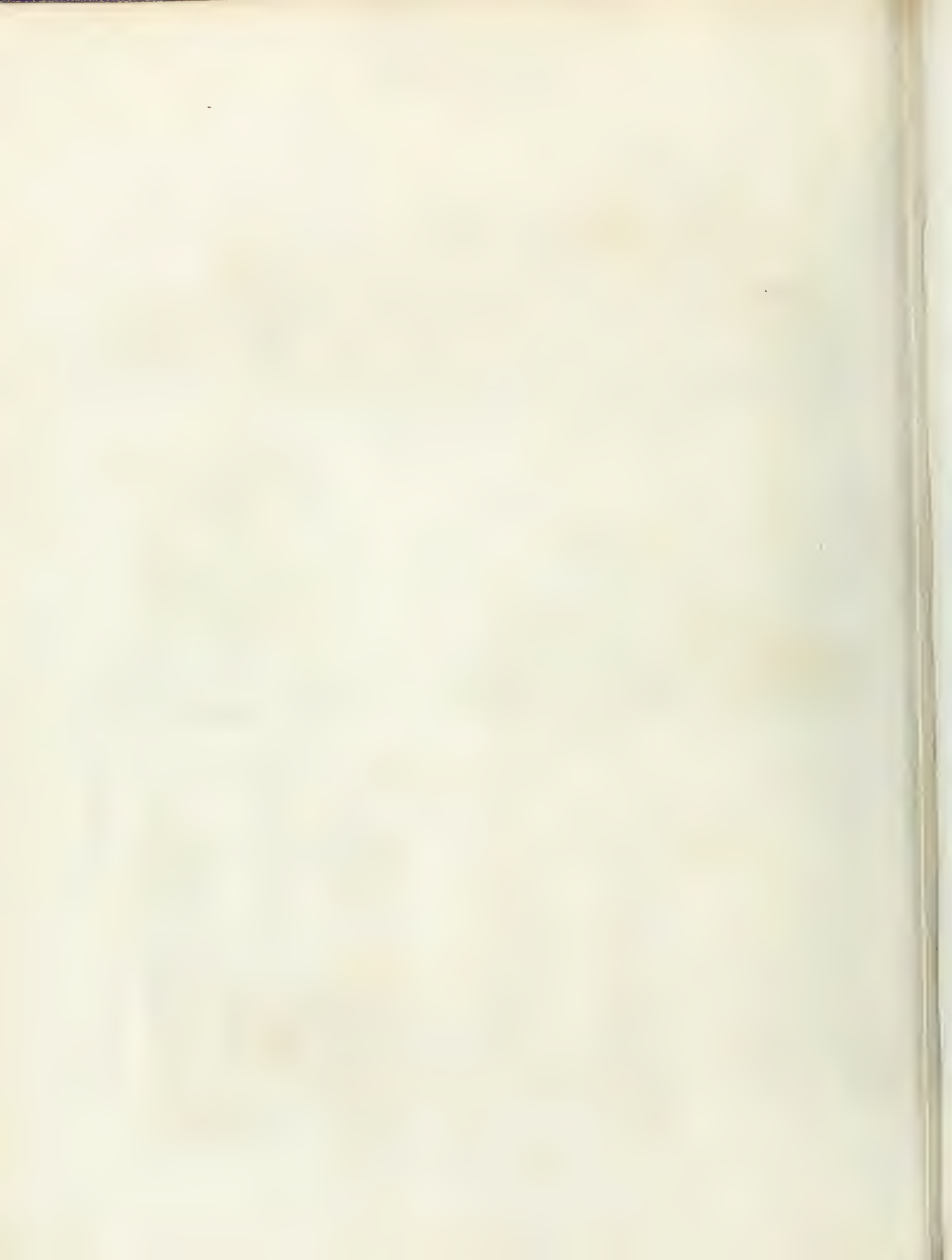


Fig. 3.





DAIRY HOUSES.

Fig. 2.

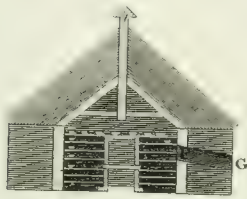


Fig. 1.

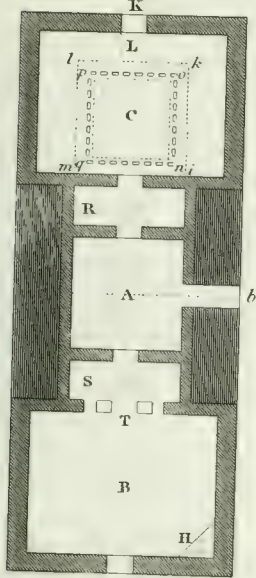


Fig. 3.

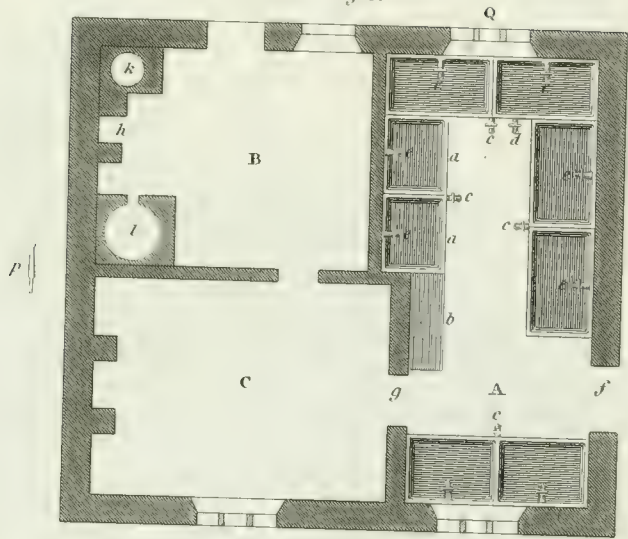


Fig. 4.



Fig. 5.

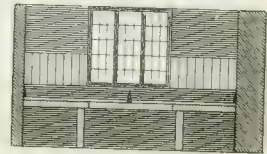


Fig. 6.

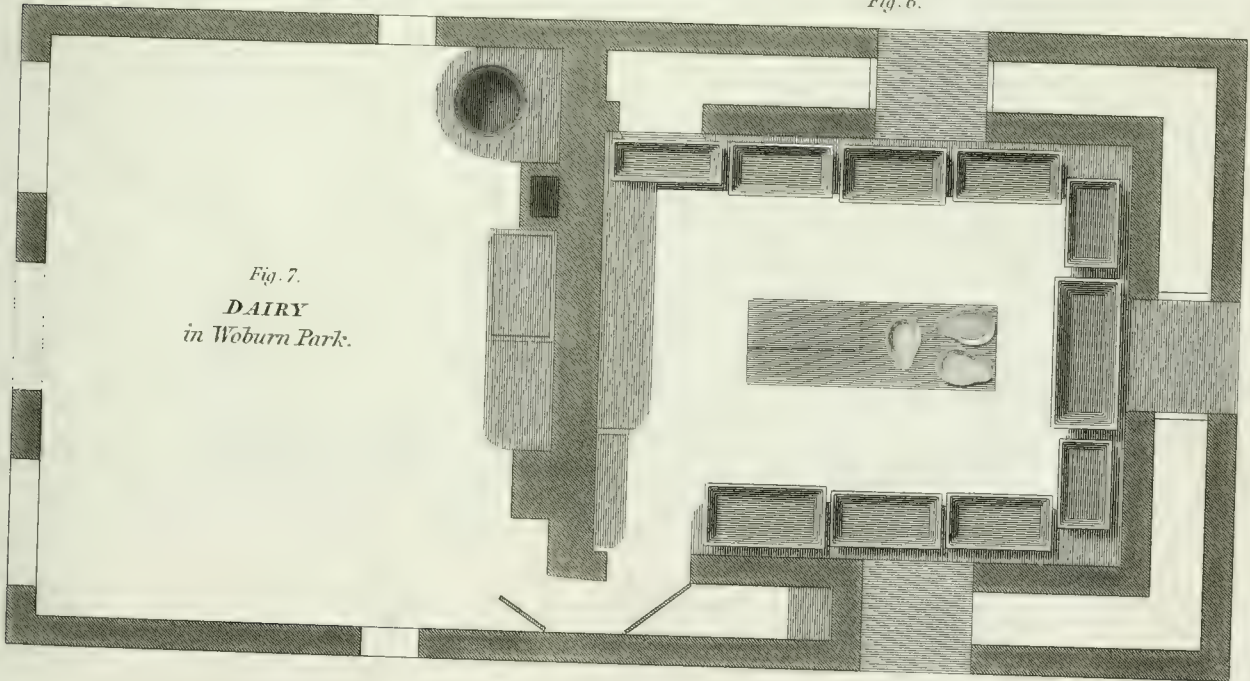
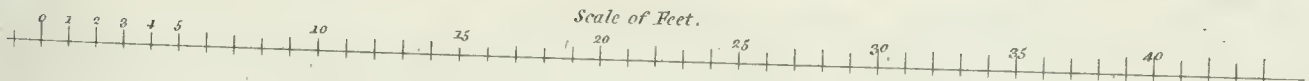
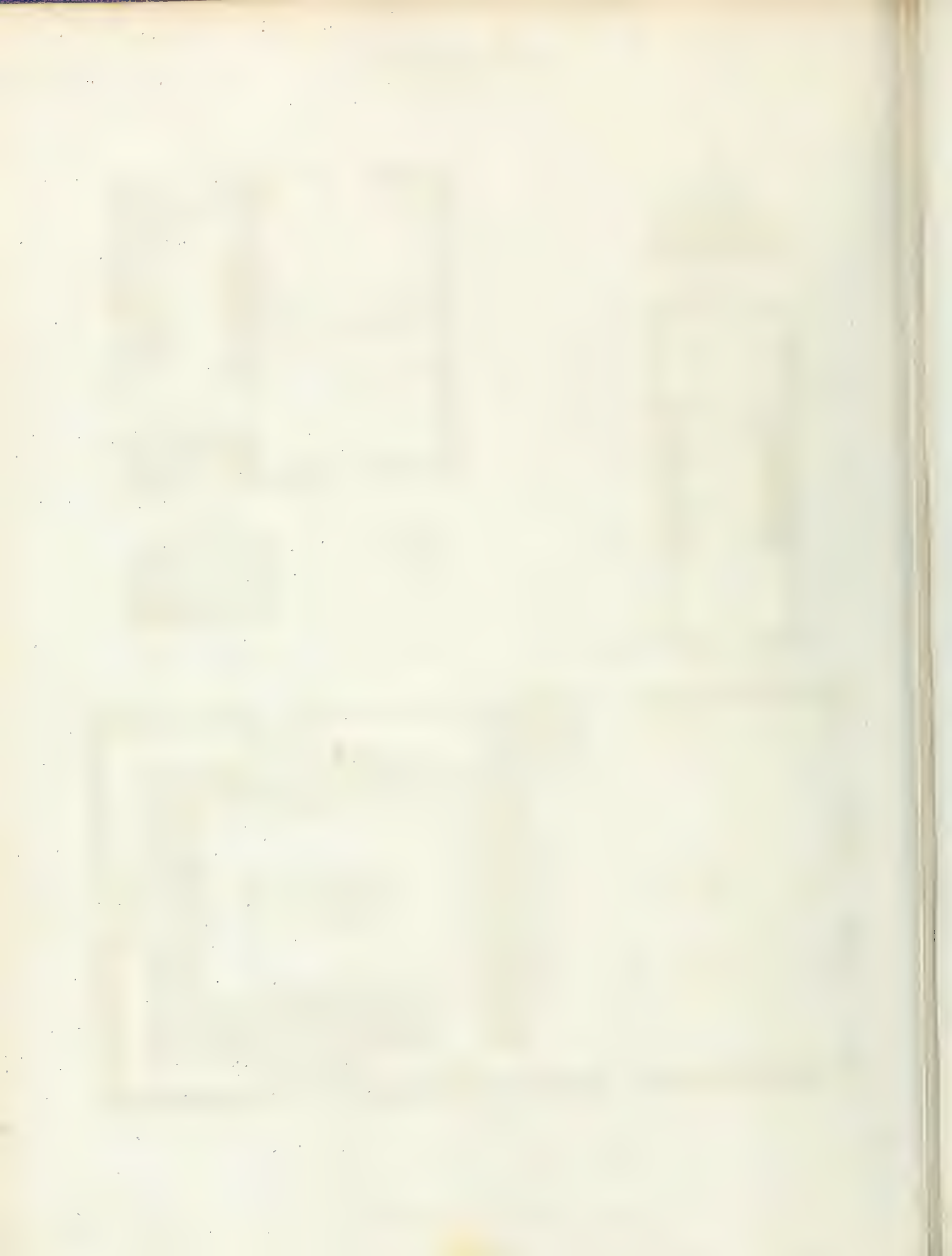


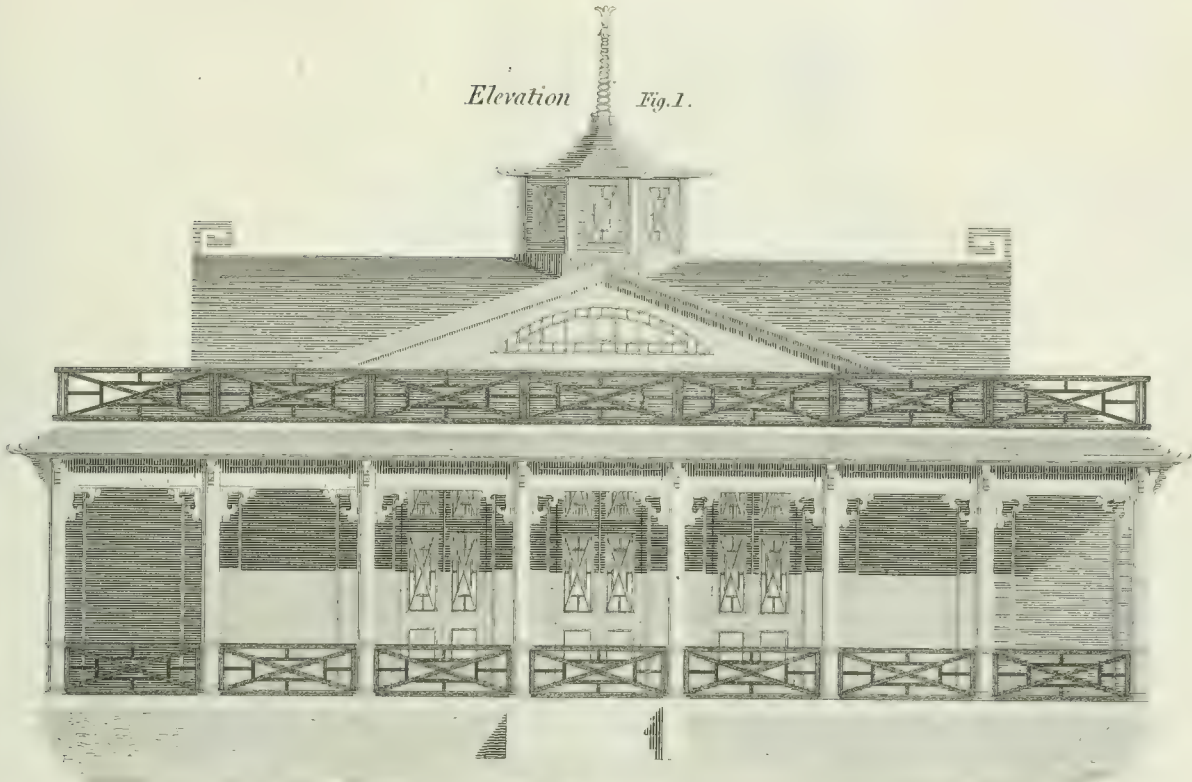
Fig. 7.  
DAIRY  
in Woburn Park.







Elevation Fig. 1.



Plan  
Fig. 2.



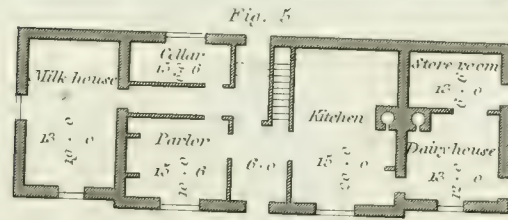
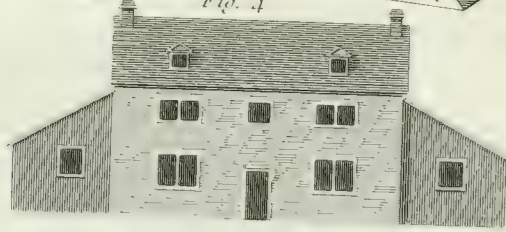
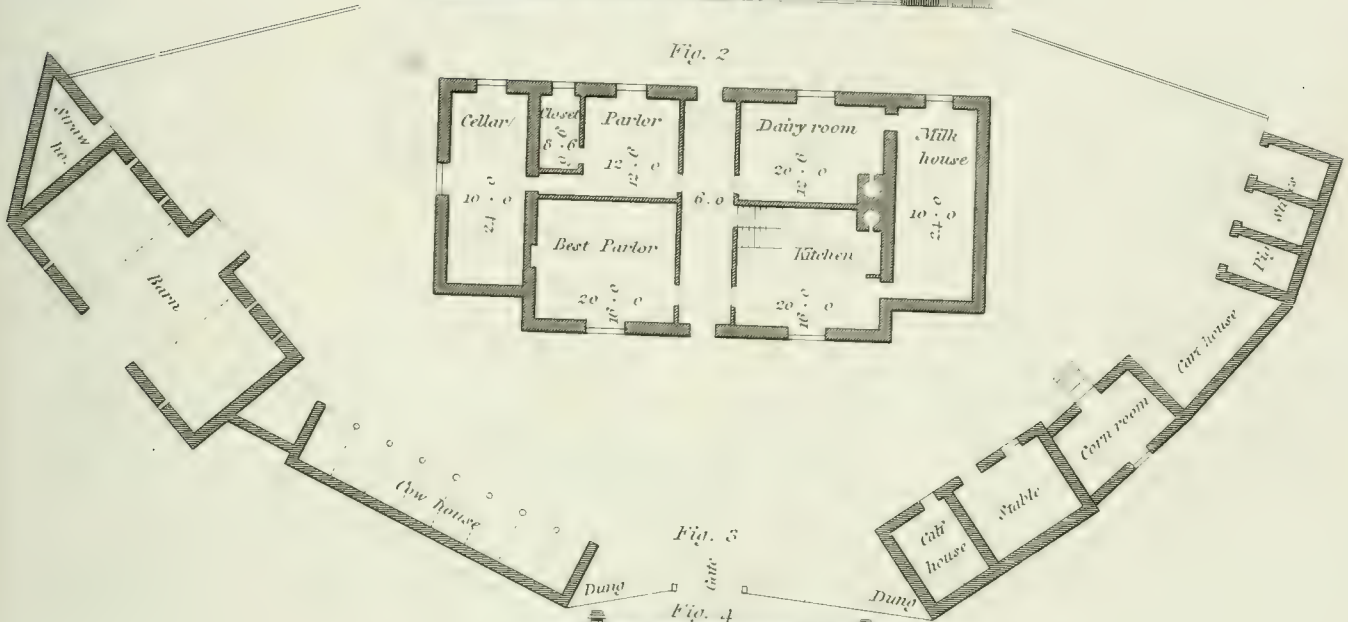
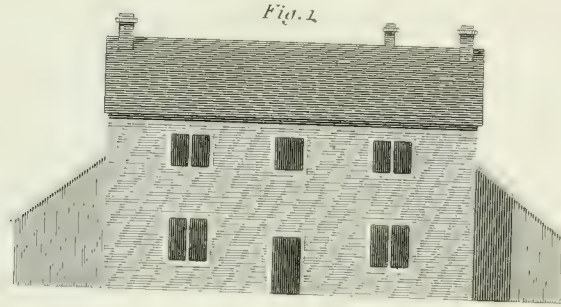
Scale of Feet.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30





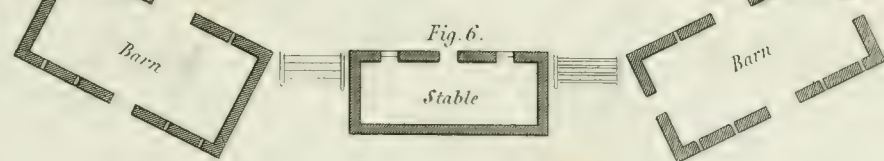
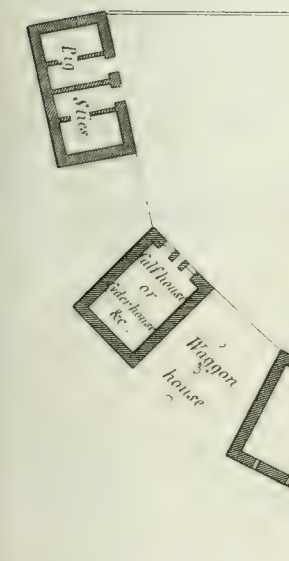
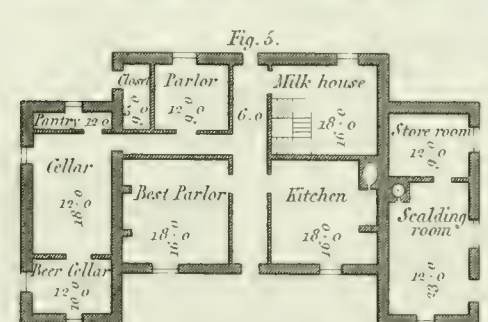
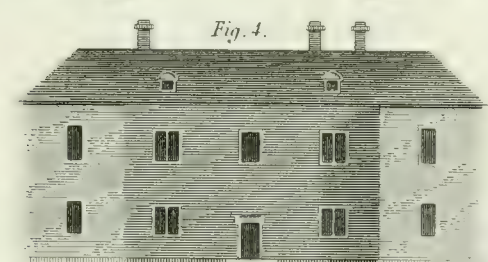
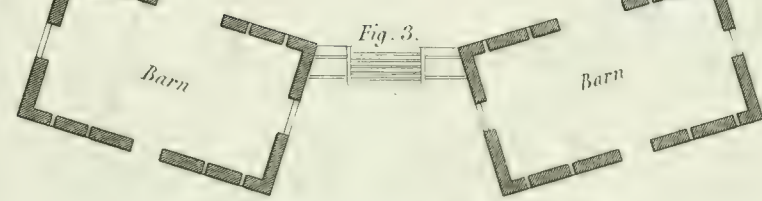
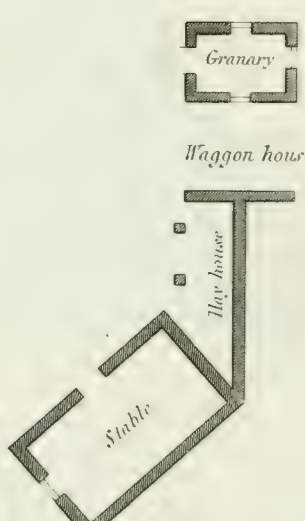
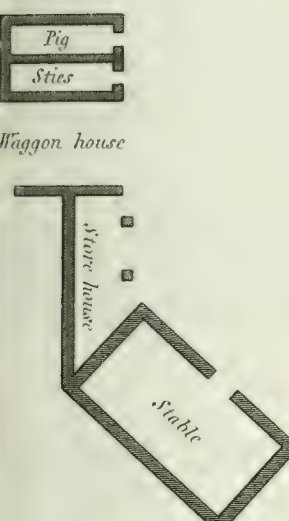
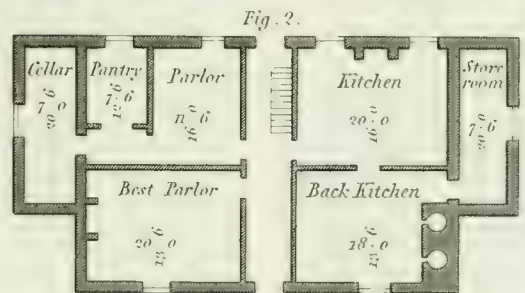
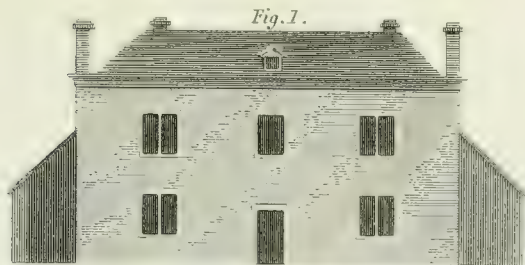
GRASS AND DAIRY FARM BUILDINGS.



THE

1

AGRICULTURE.  
CORN AND MIXED FARM BUILDINGS.





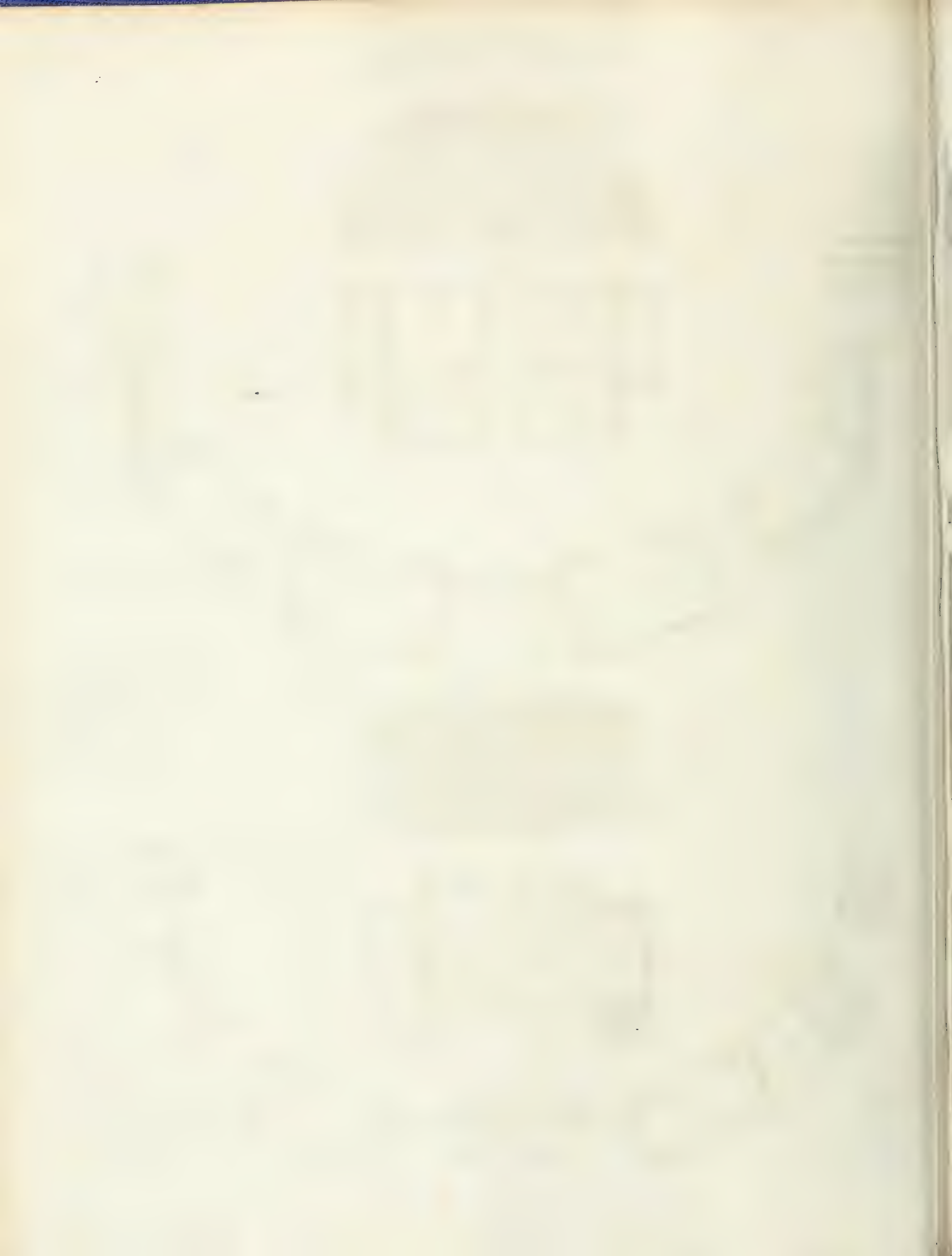


Fig. 4.

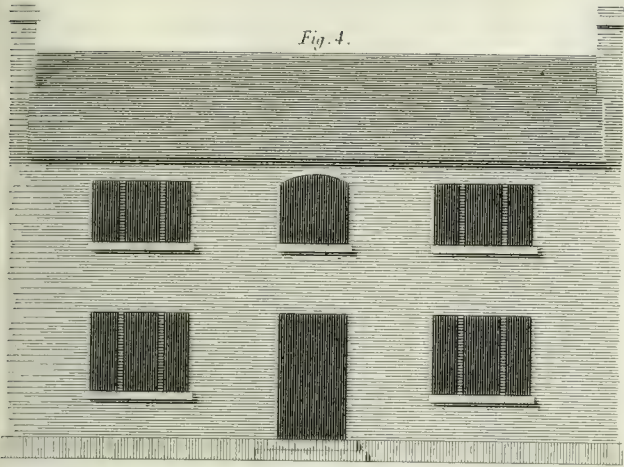


Fig. 1.

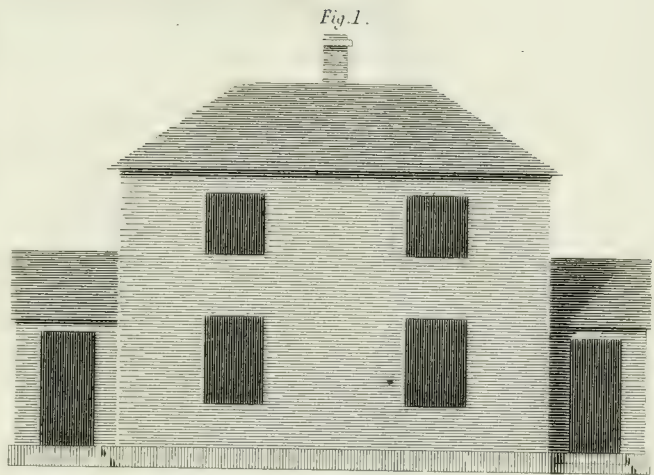


Fig. 5.

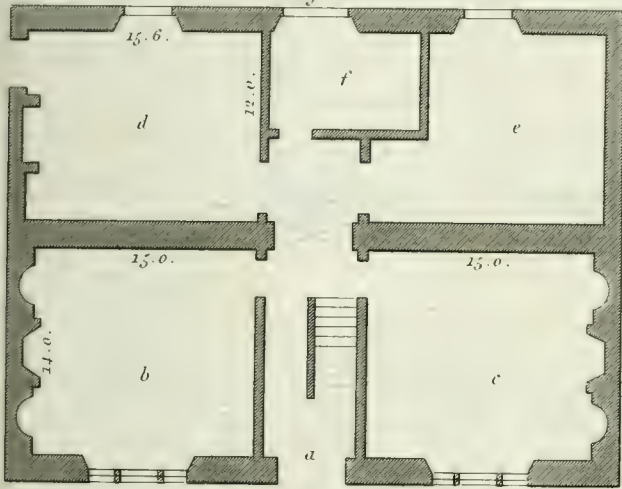


Fig. 2.

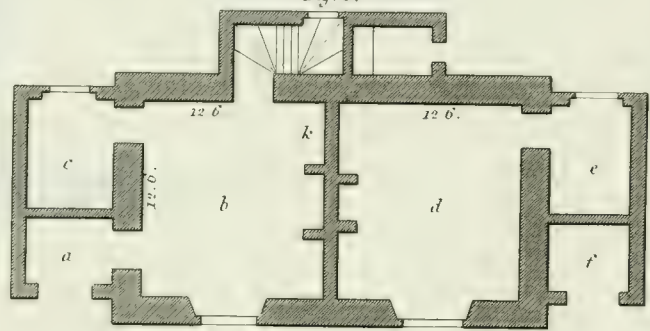


Fig. 6.

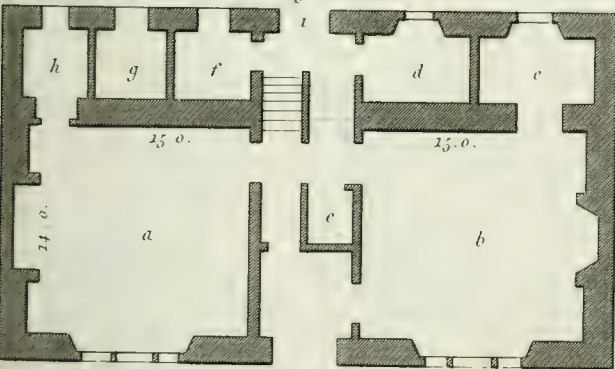
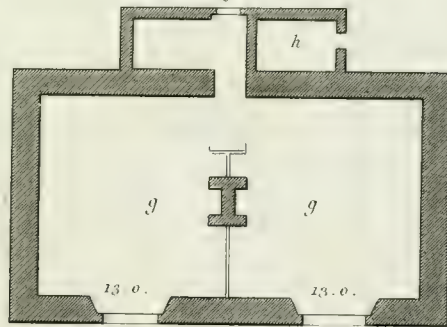
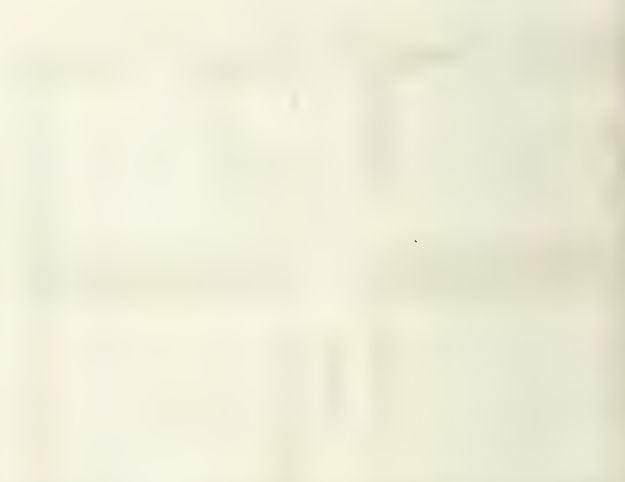


Fig. 3.







PLANS OF SQUARE FARM YARDS.

PLATE XXV

*Pool with small stream constantly flowing through it*

Fig. 1.

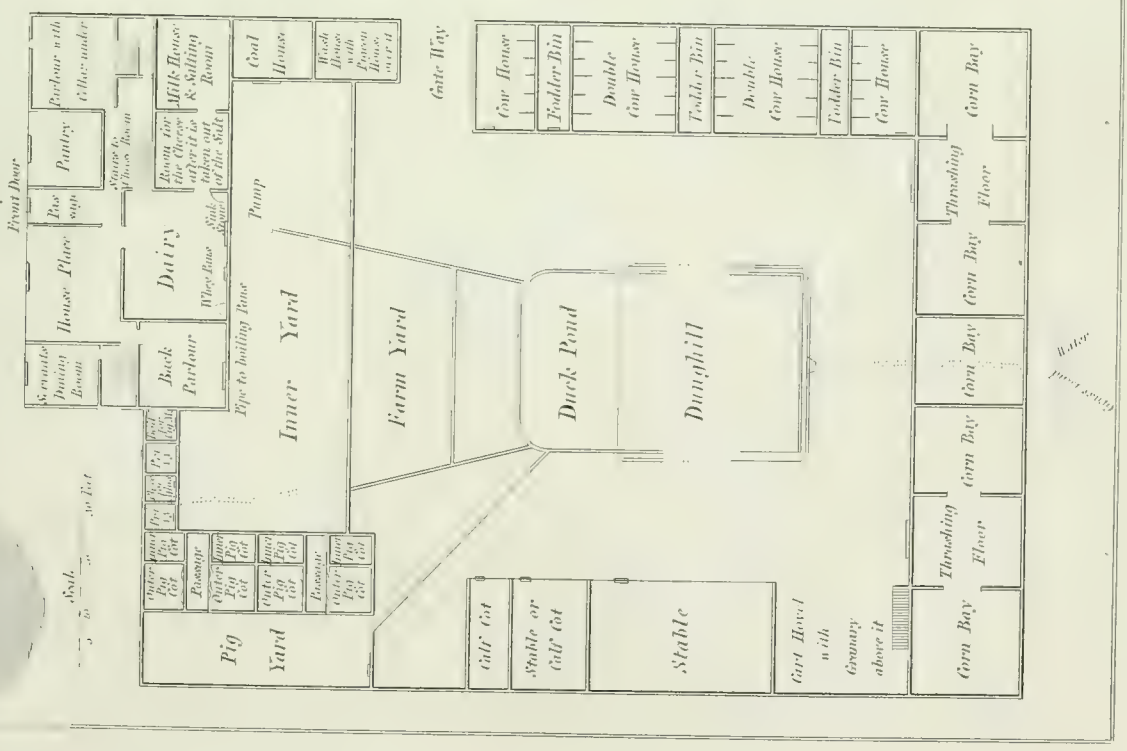
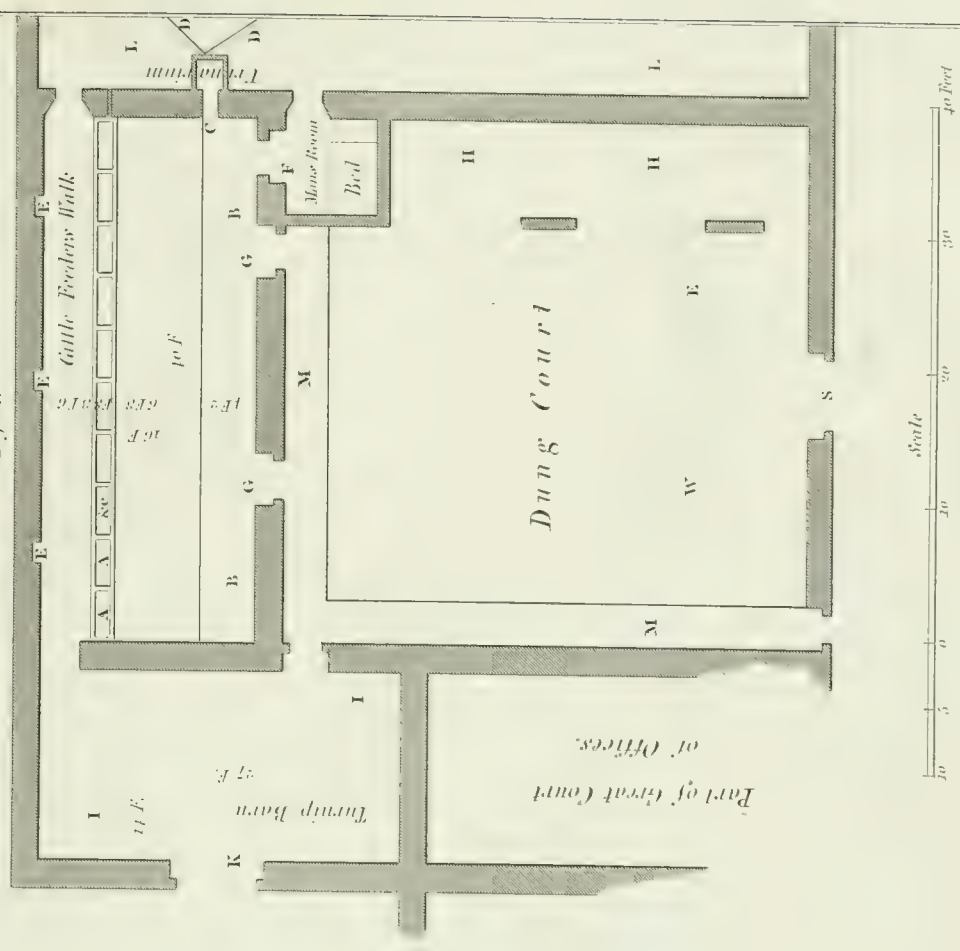
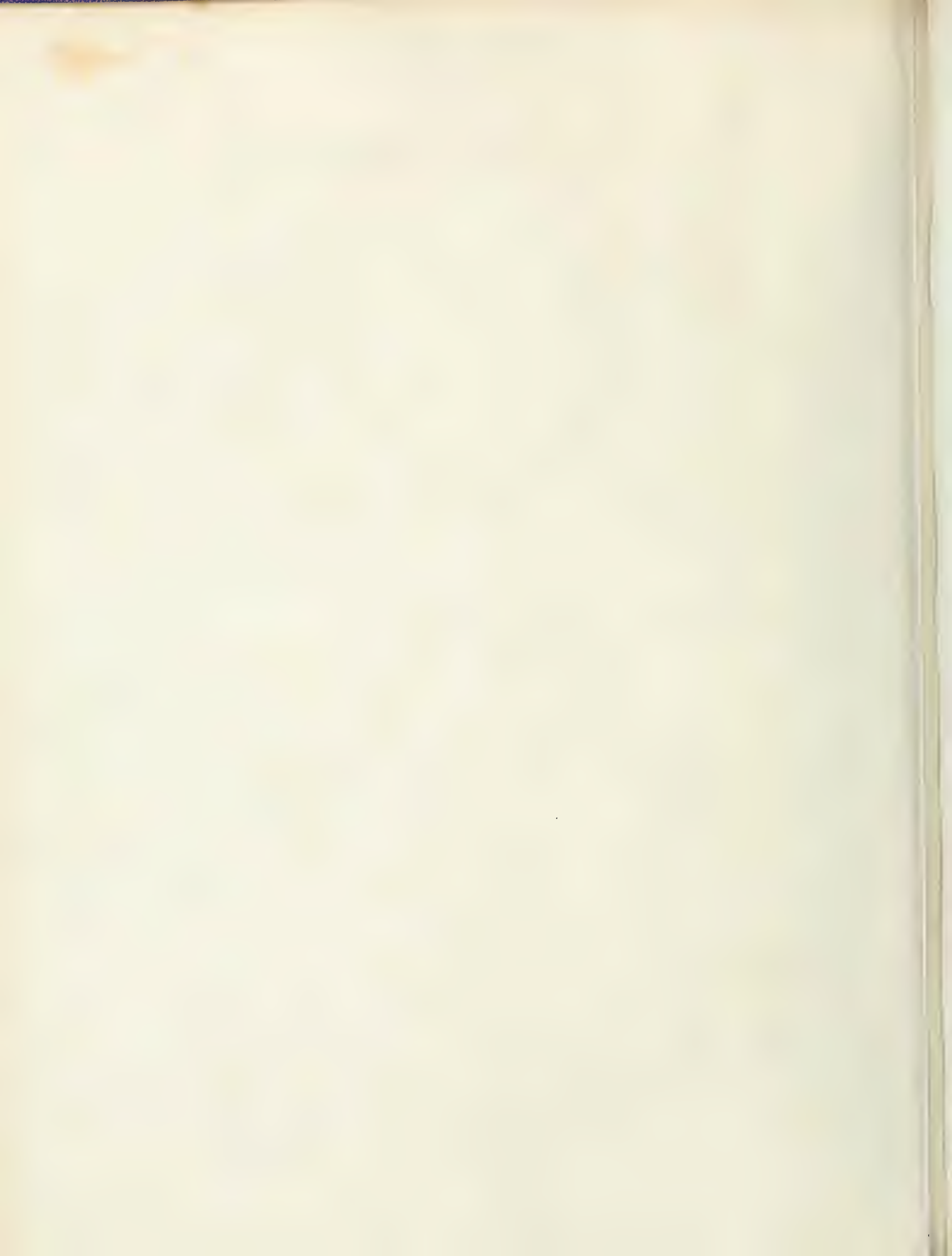


Fig. 2.



Published as the Act directs, 1809, by Longman, Hurst, Rees and Orme, Paternoster Row.

Engraved by W. Wilson Lowry.



AGRICULTURE.  
PLANS OF ANGULAR AND CIRCULAR FARM YARDS.

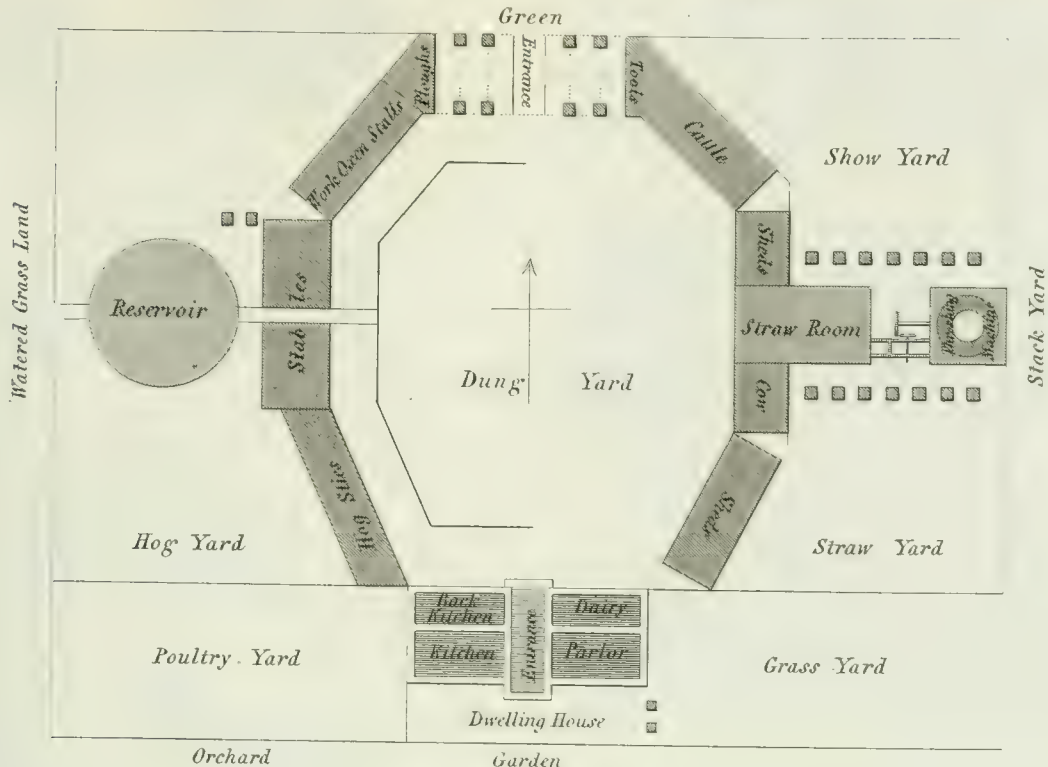
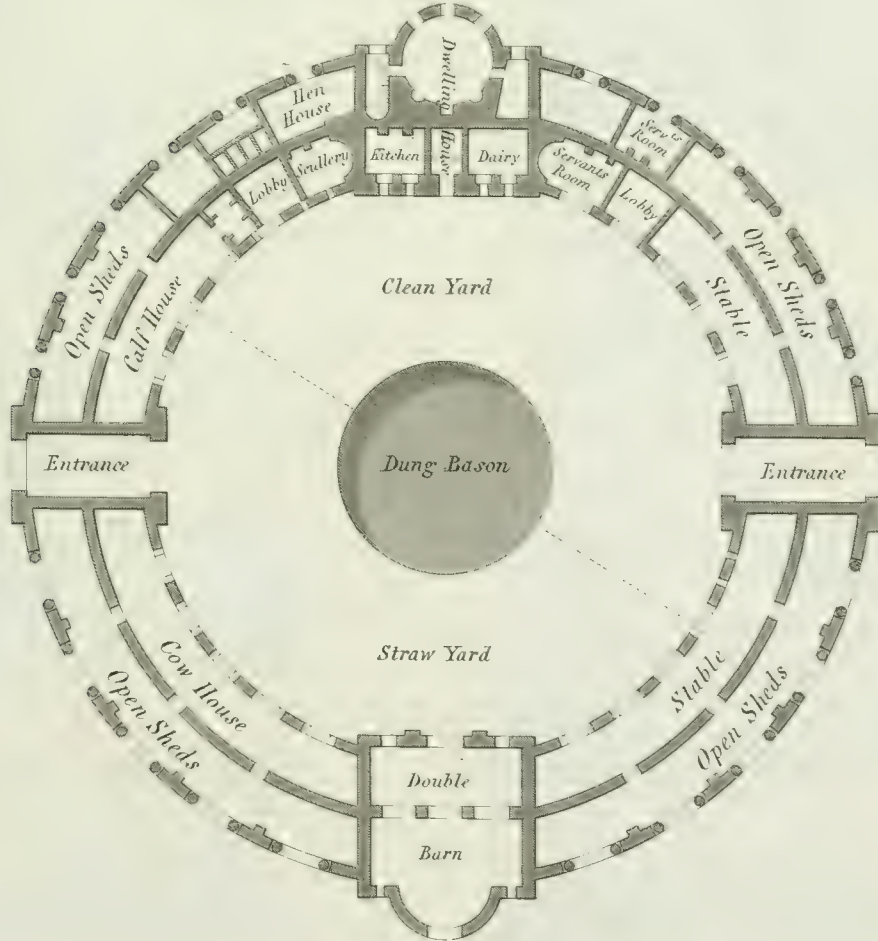
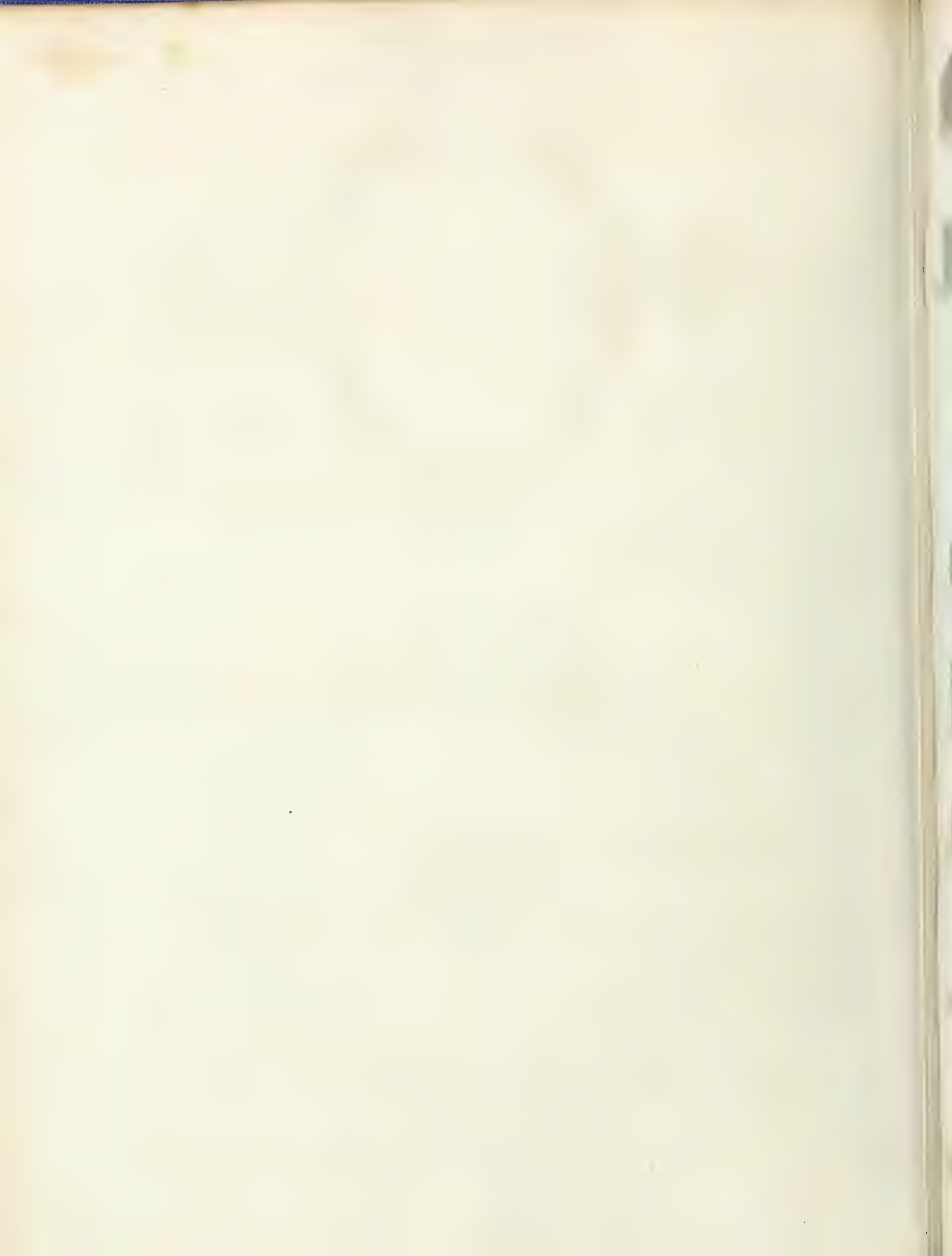


Fig. 2.







FENCES.

Fig. 9.

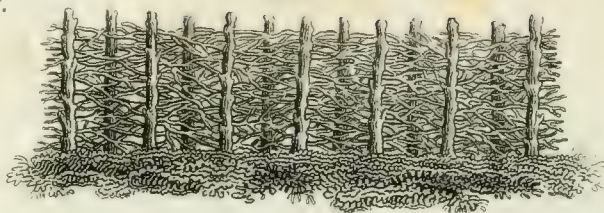


Fig. 10.

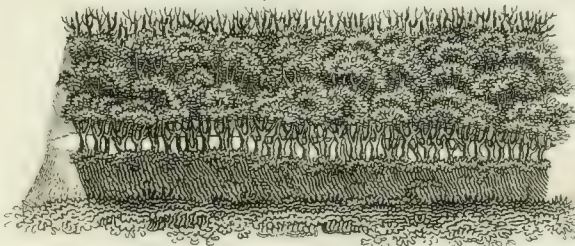


Fig. 11.



Fig. 12.



Fig. 13.



Fig. 14.



Fig. 15.

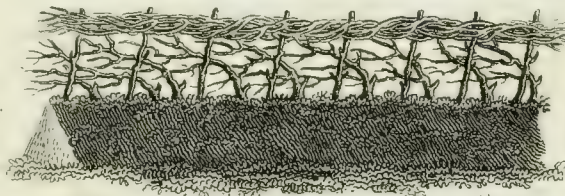


Fig. 16.

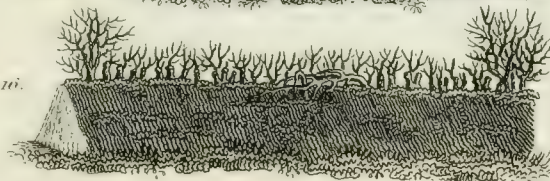


Fig. 1.

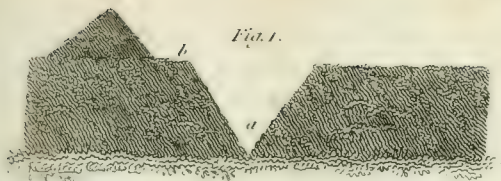


Fig. 2.

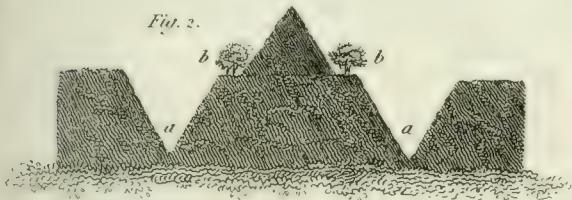


Fig. 3.

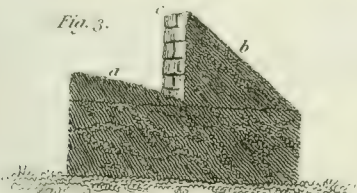


Fig. 4.

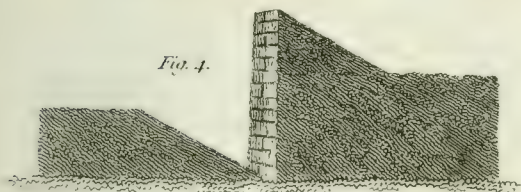


Fig. 5.

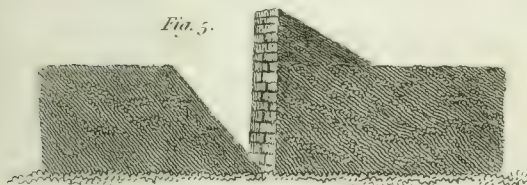


Fig. 6.



Fig. 7.

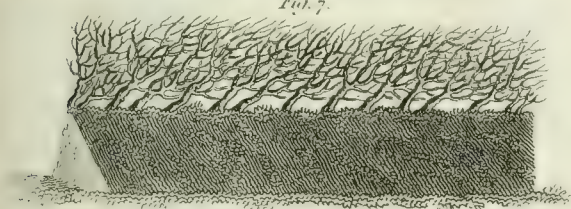


Fig. 8.

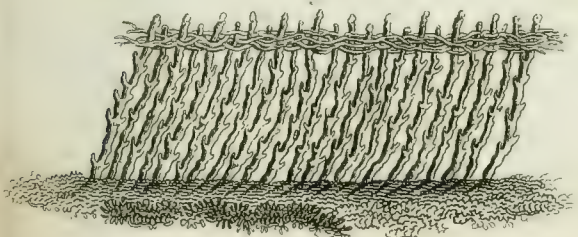






Fig. 1.

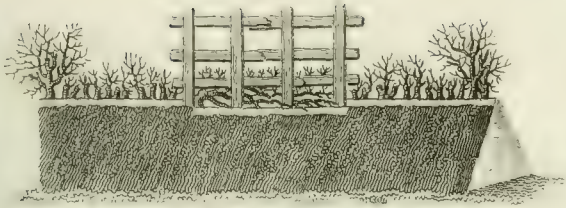


Fig. 7.

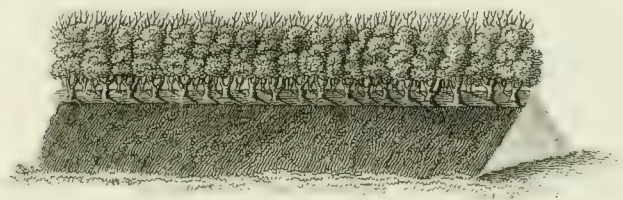


Fig. 2.

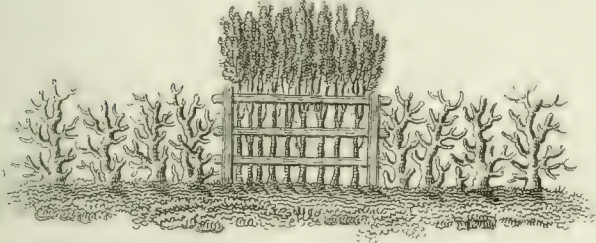


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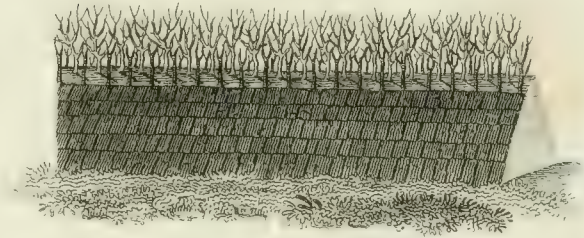


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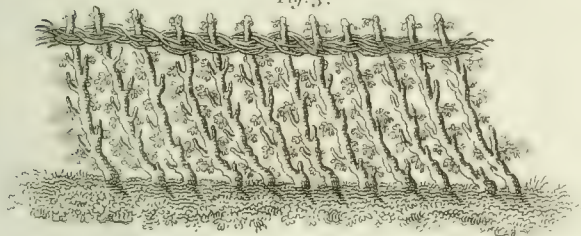


Fig. 9.

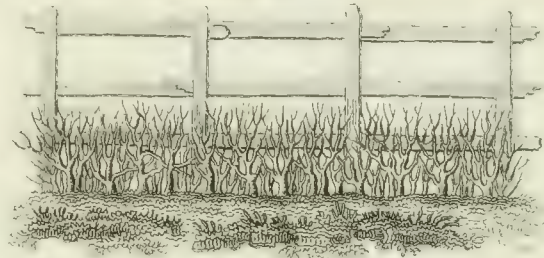


Fig. 4.

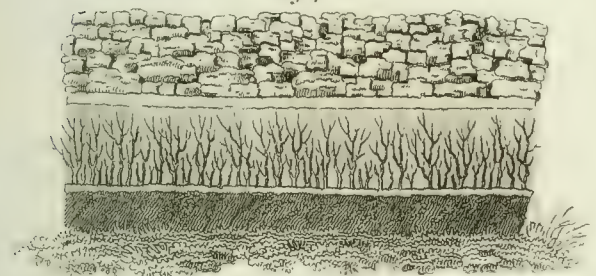


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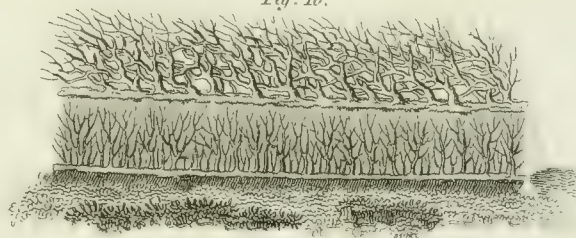


Fig. 5.



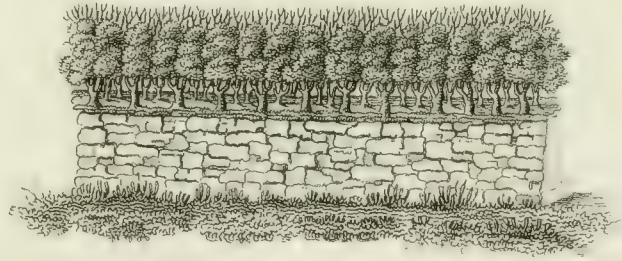
Fig. 11.



Fig. 6.



Fig. 12.







FENCES.

Fig. 1.

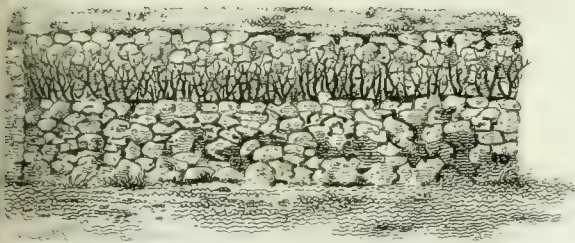


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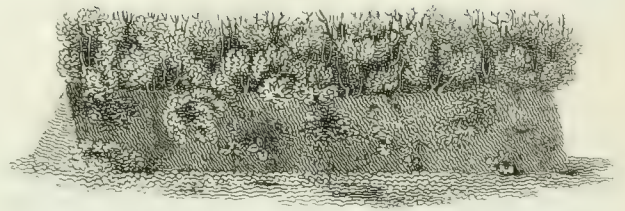


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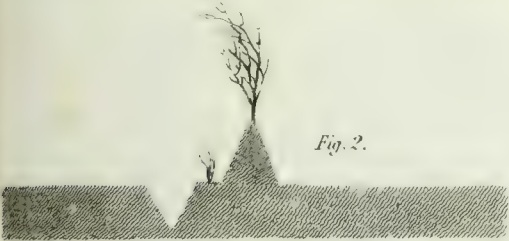


Fig. 8.

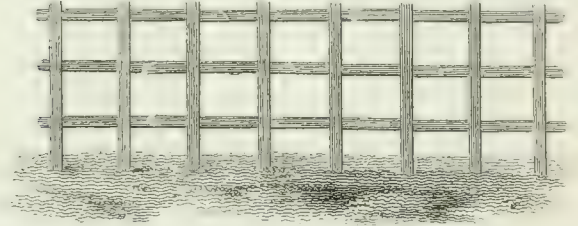


Fig. 3.



Fig. 9.

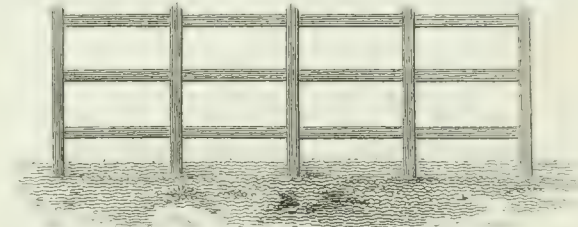


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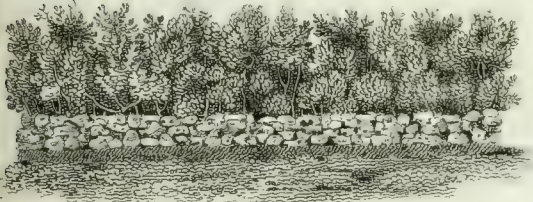


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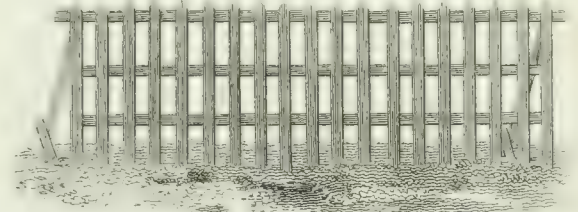


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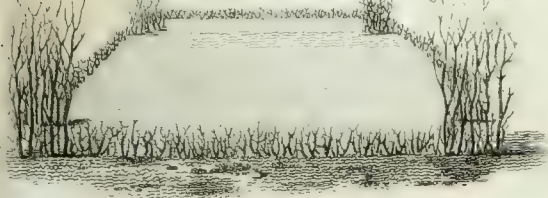


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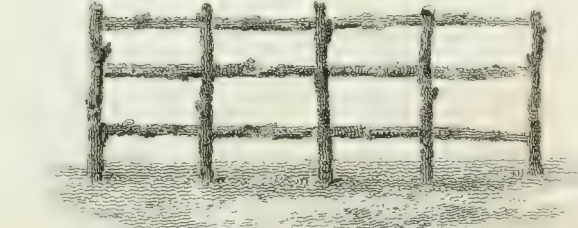


Fig. 6.



Fig. 12.







FENCES.

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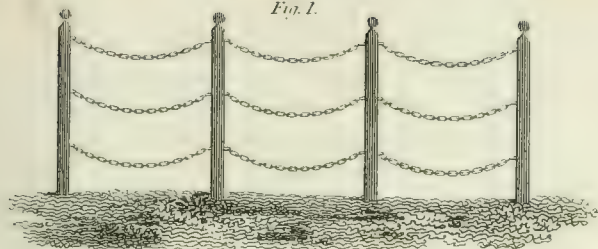


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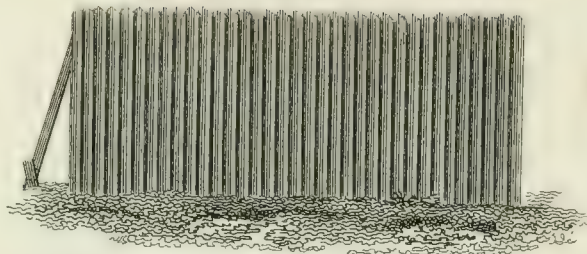


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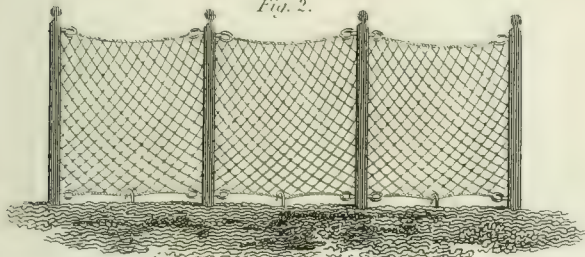


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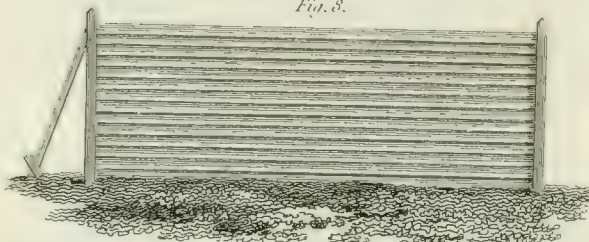


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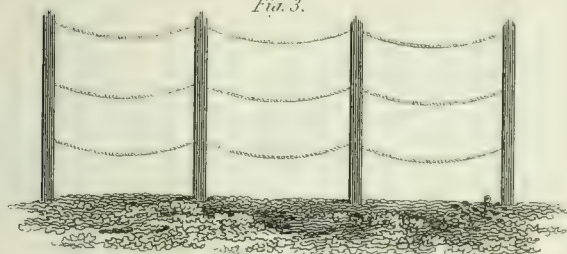


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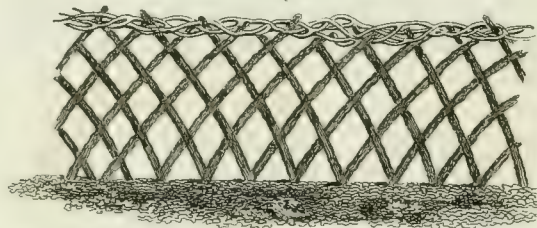


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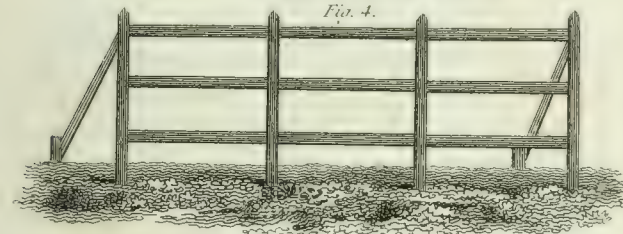


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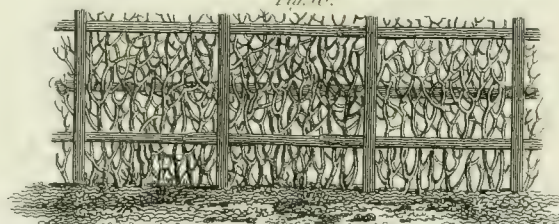


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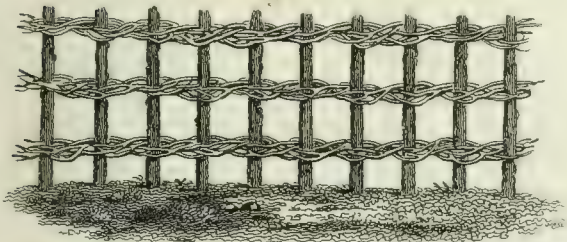


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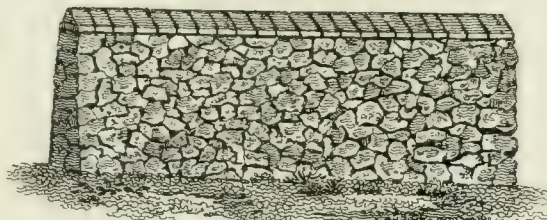


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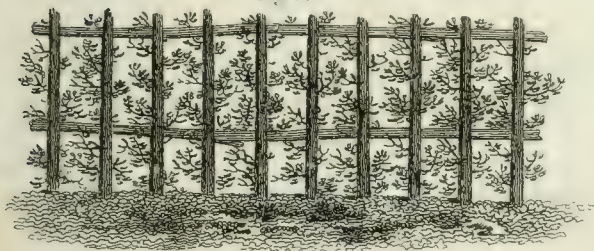
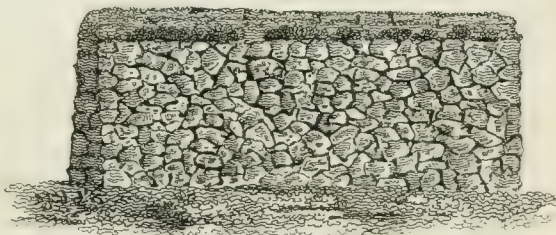


Fig. 12.







FENCES.

Fig. 1.

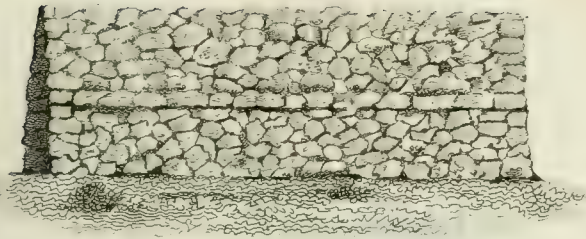


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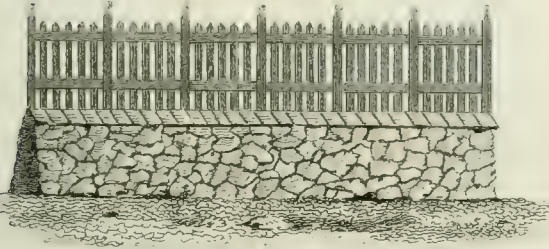


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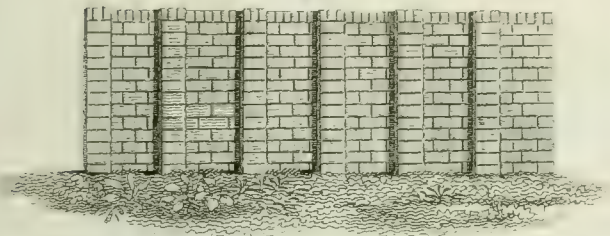


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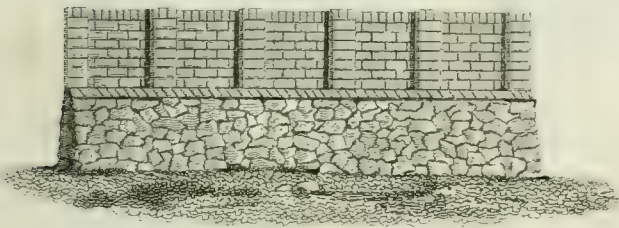


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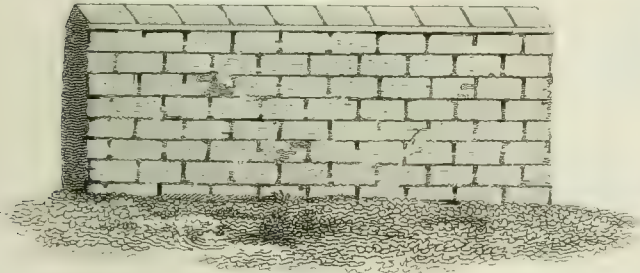


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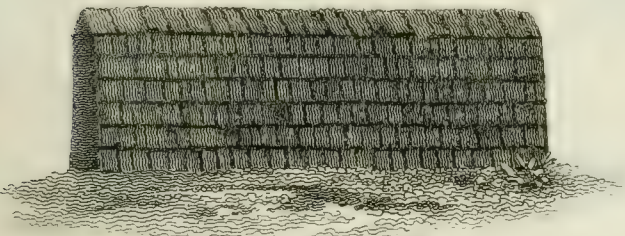


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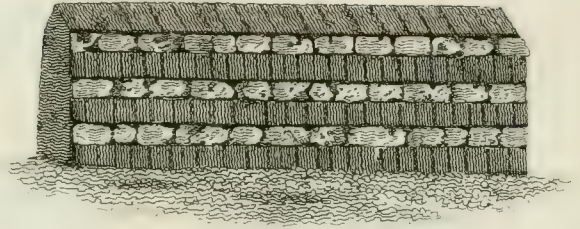


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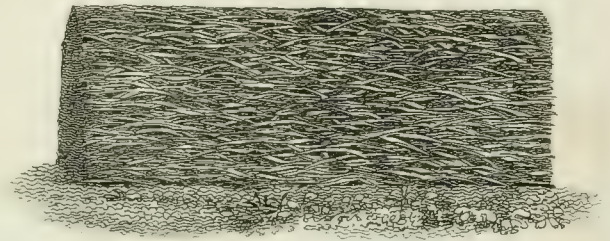


Fig. 9.



Fig. 10.



Fig. 11.

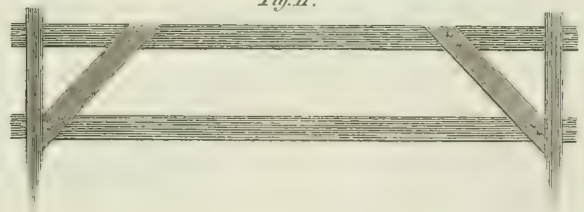
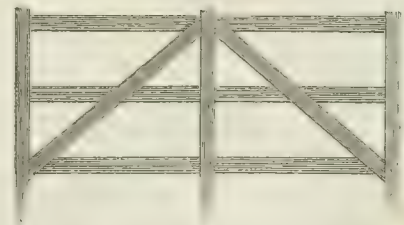
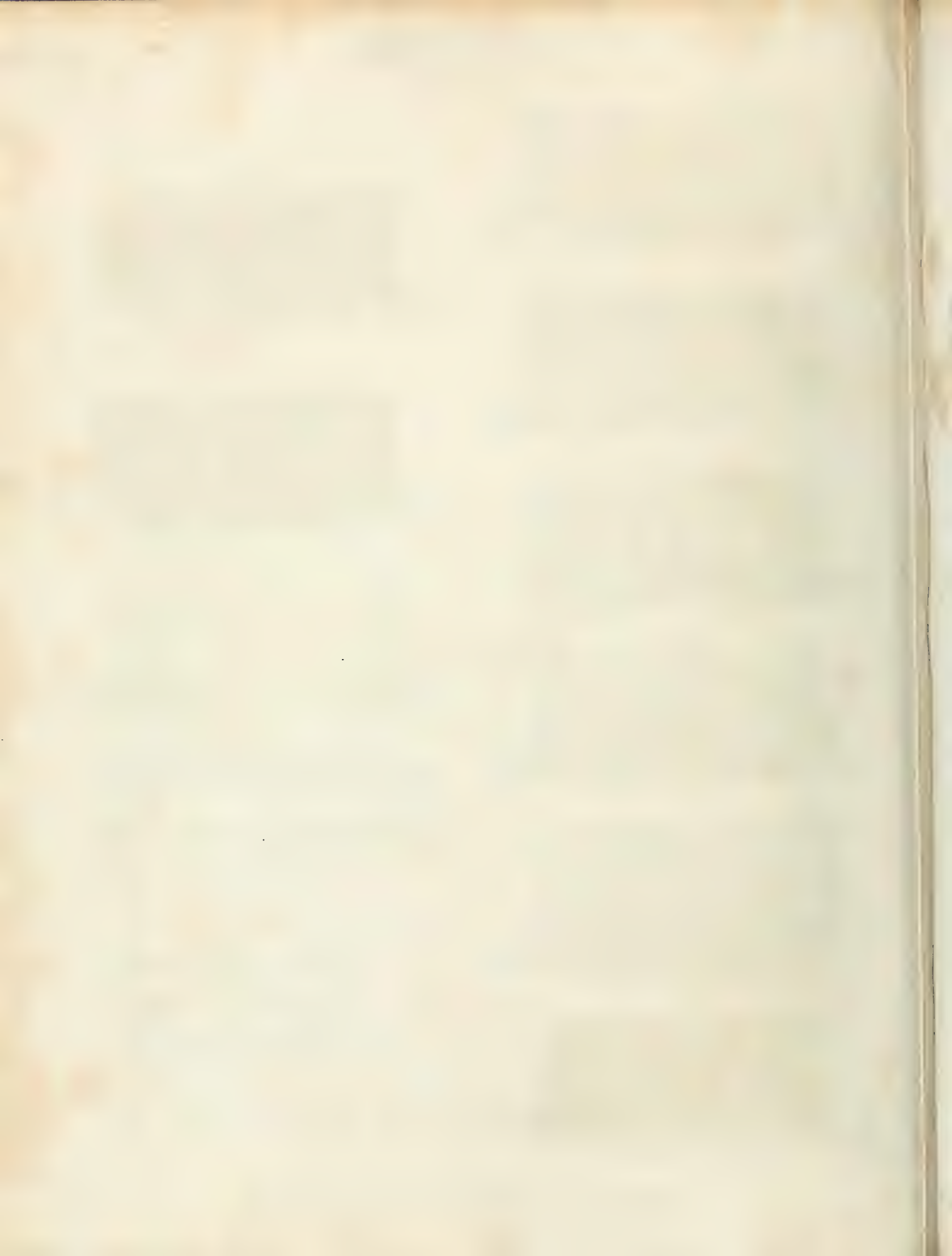


Fig. 12.







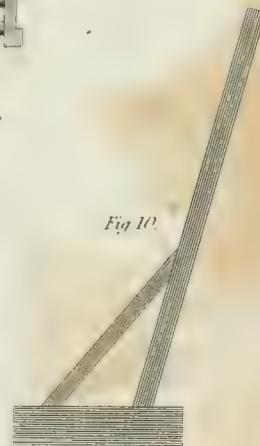
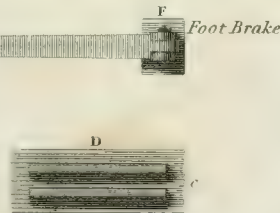
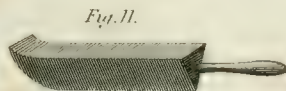
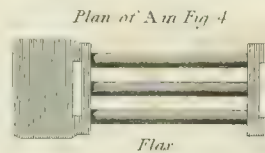
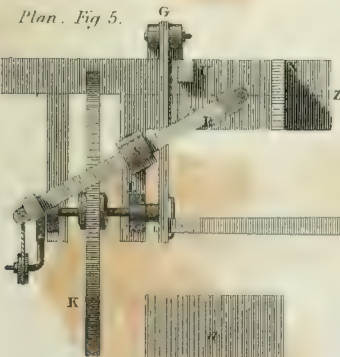
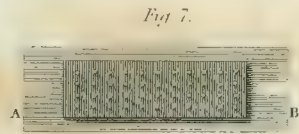
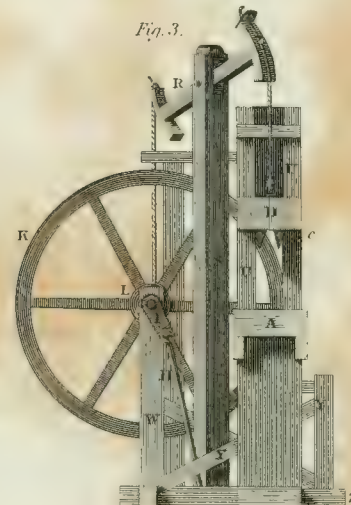
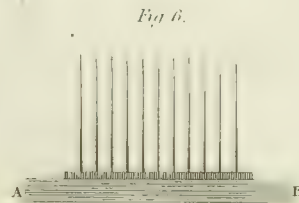
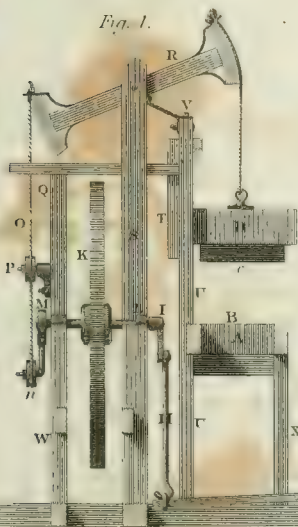
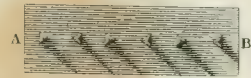
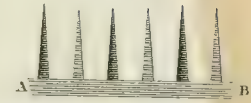
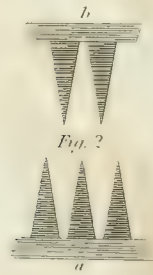








Fig. 1.

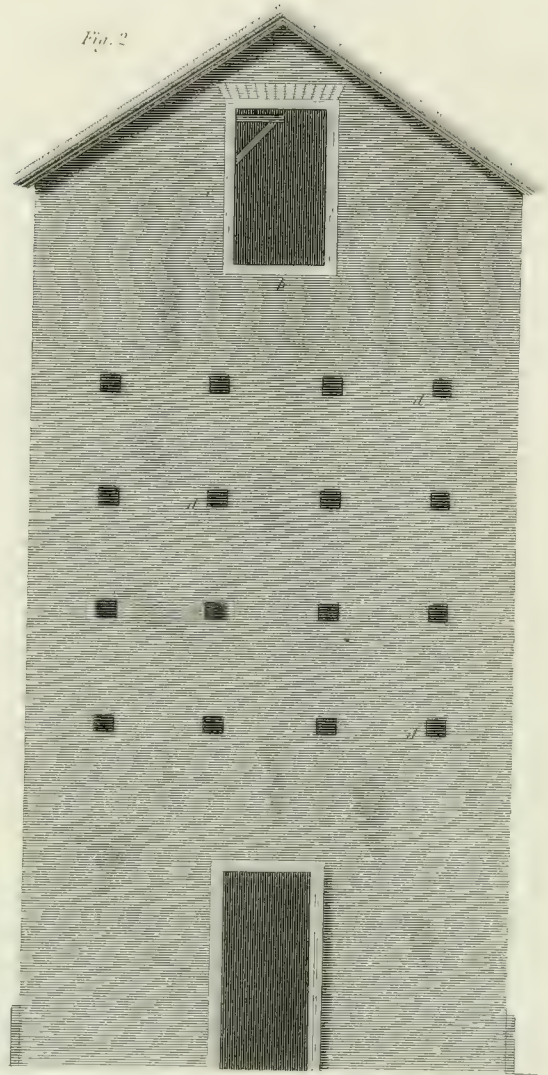


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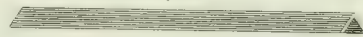


Fig. 3.

Fig. 5

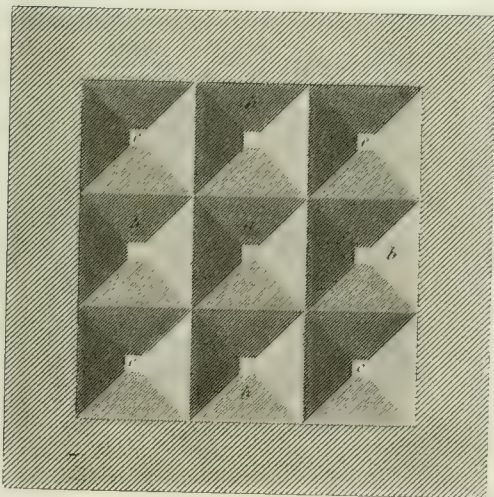
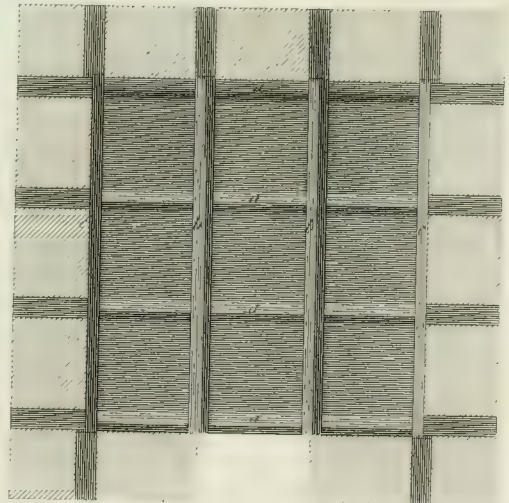
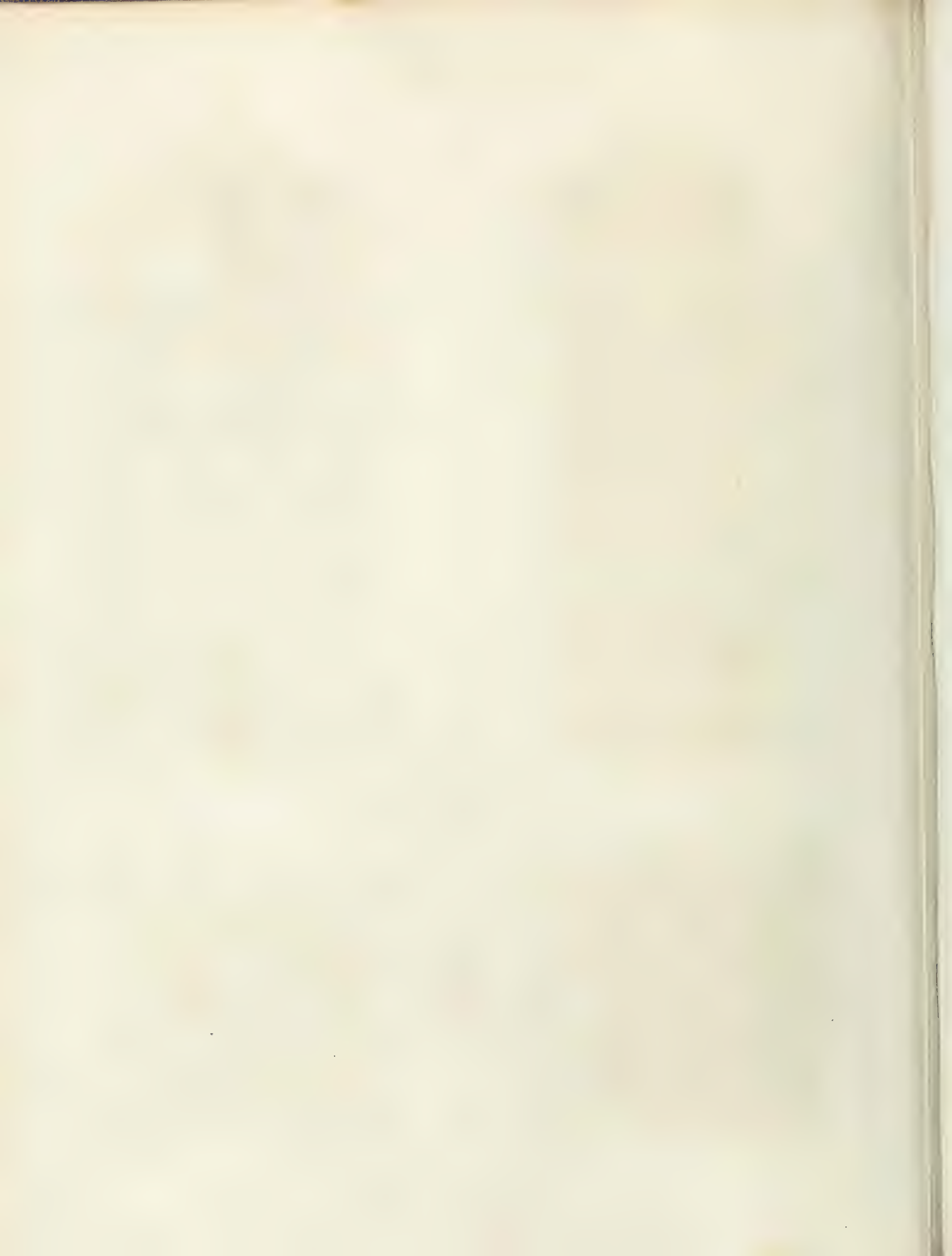


Fig. 5 Plan.



For Fig. 8, referred to in the Article **GRAZING**,  
See Plate **GRAZING** and **HARROWS**.



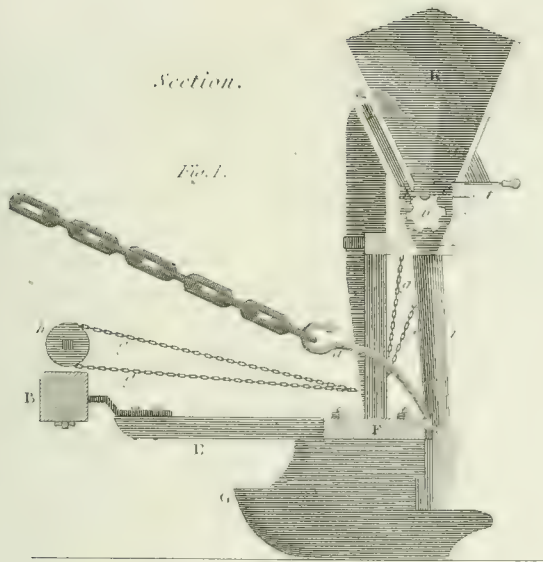


V

Fig. 2

Section.

Fig. 1.



Front

Elevation.

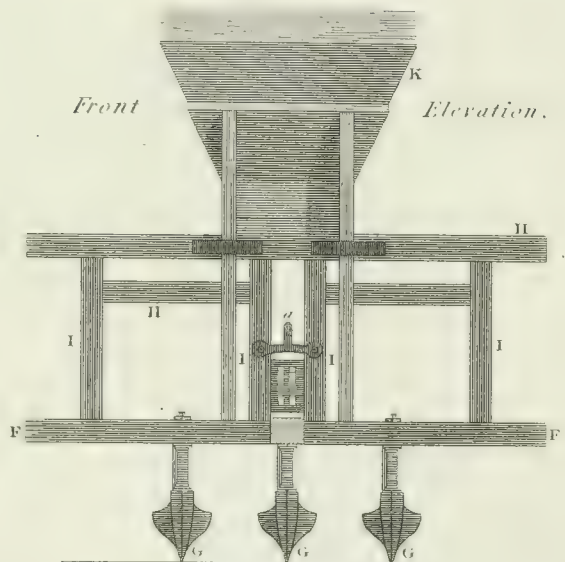
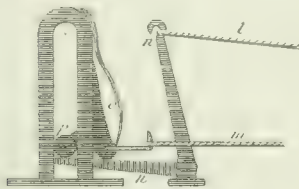


Fig. 3.



Perspective View of the Machine.

Fig. 4.

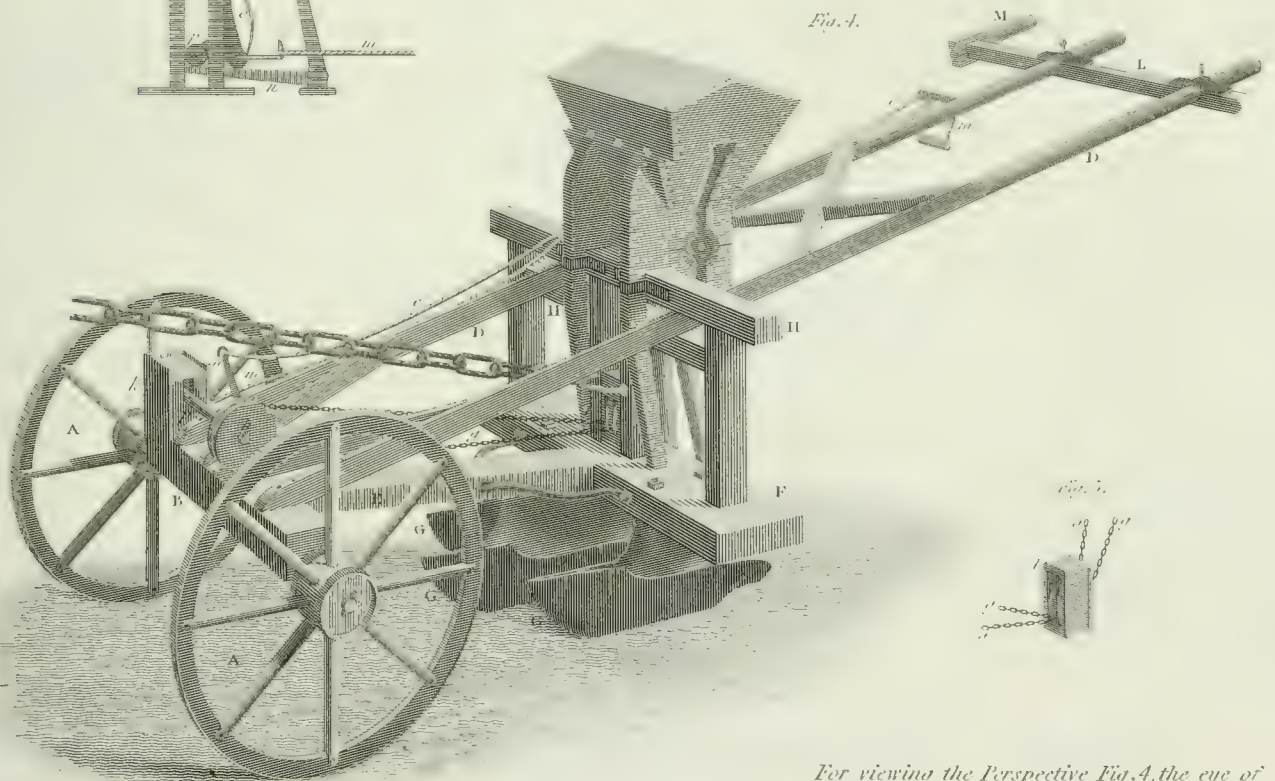
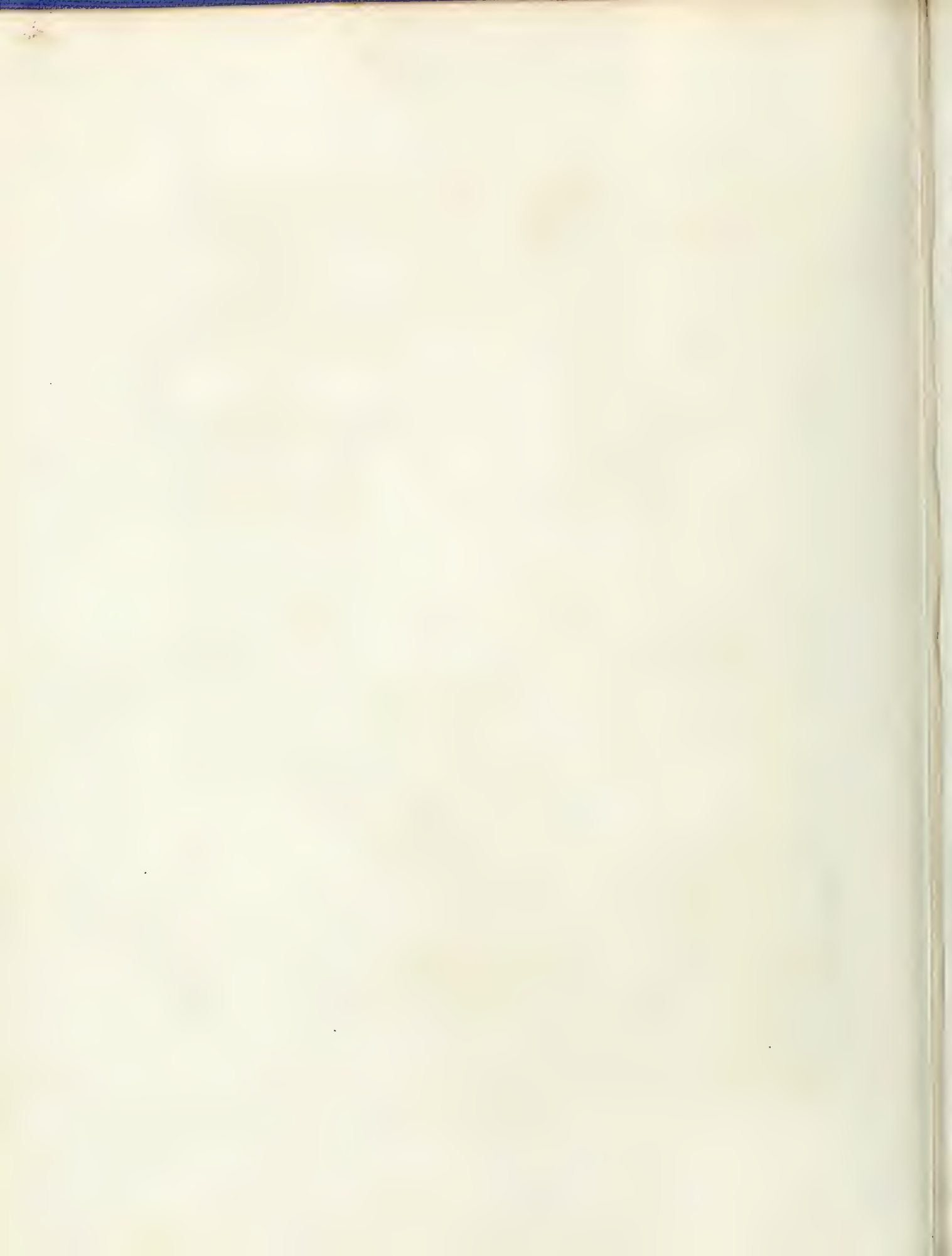


Fig. 5.



W

For viewing the Perspective Fig. 4, the eye of the observer should be placed at 12 inches perpendicular distance from the intersections of the line V.W.



M<sup>r</sup> Charles Machine for Levelling Land.

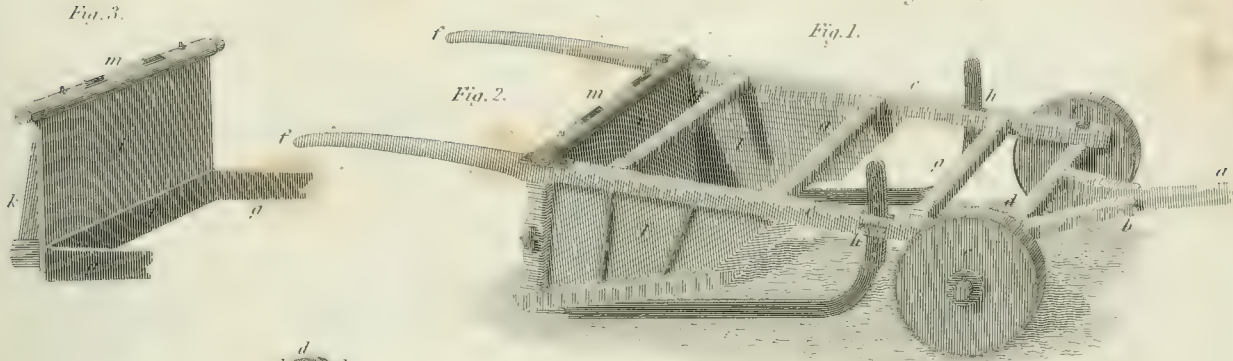
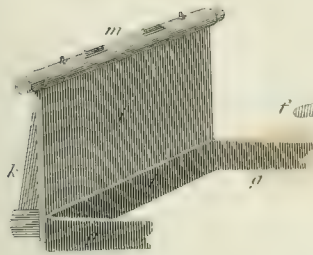
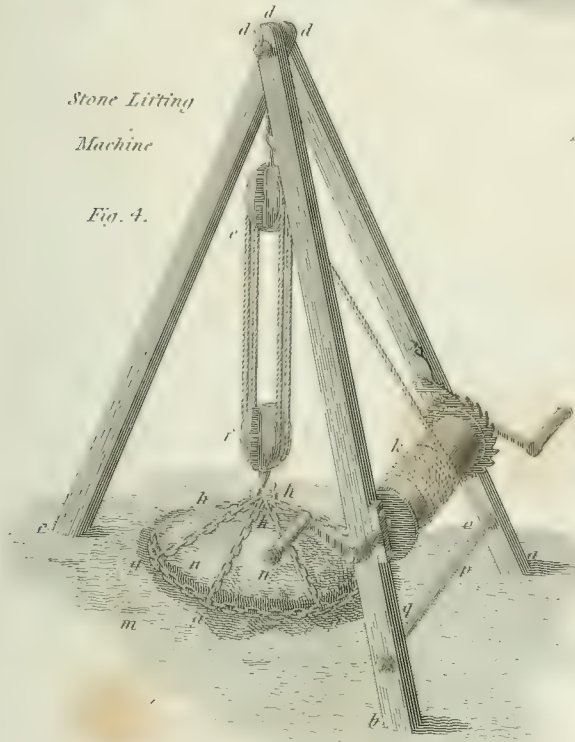


Fig. 3.



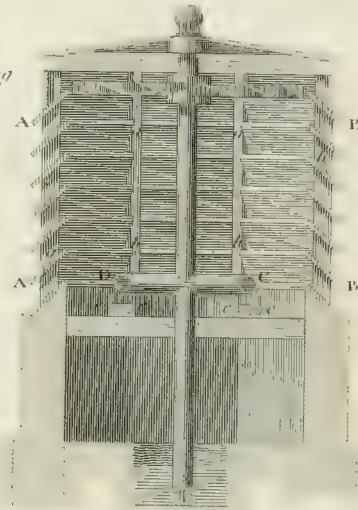
Stone Lifting Machine

Fig. 4.



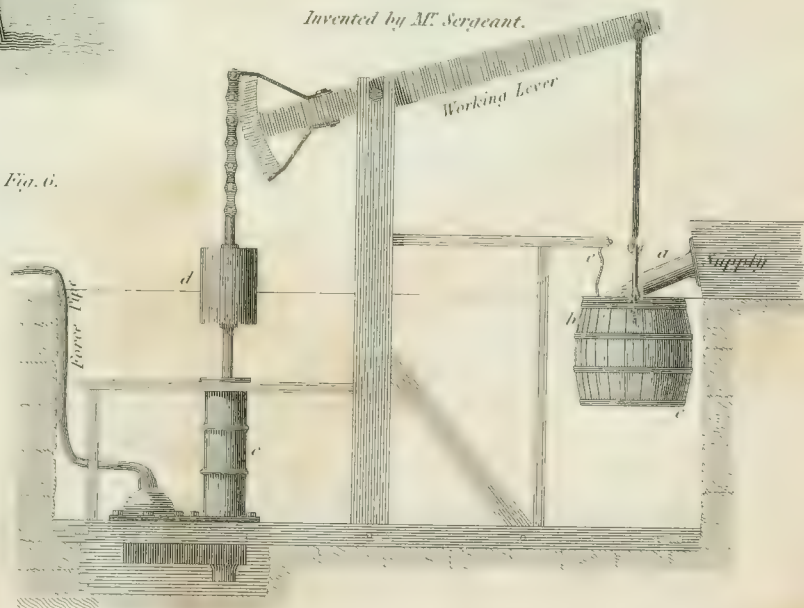
Machine for Raising Water.

Fig. 5.



Machine for Raising Water, Invented by M<sup>r</sup> Sergeant.

Fig. 6.



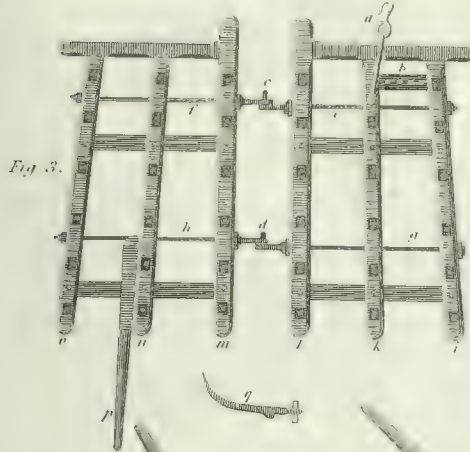
Section of the Bucket when depressed.



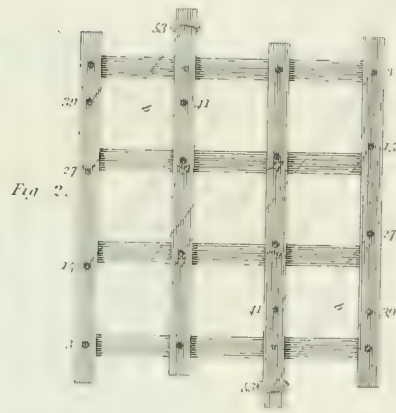




Double Jointed Harrow



Improved Harrow



Common Harrow

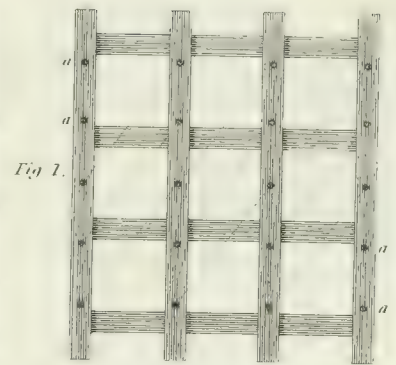
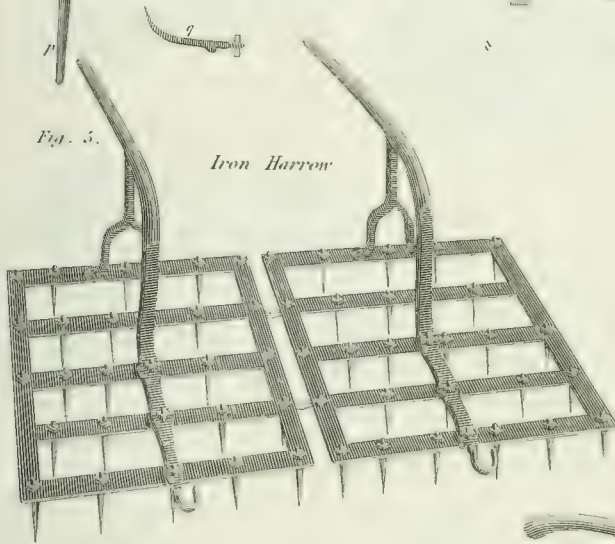


Fig. 5.

Iron Harrow



Double Harrow with top bar

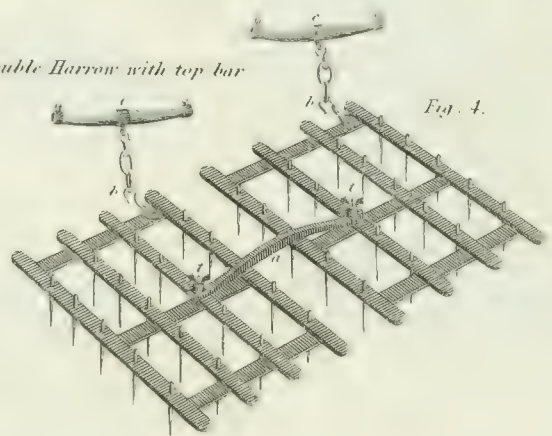


Fig. 4.

Fig. 8.

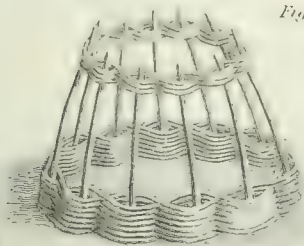


Fig. 6. Grass Harrow

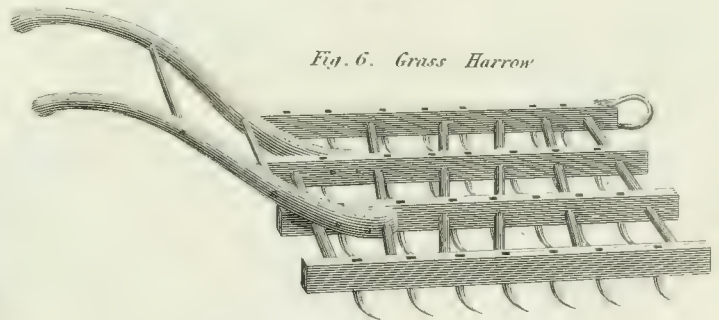
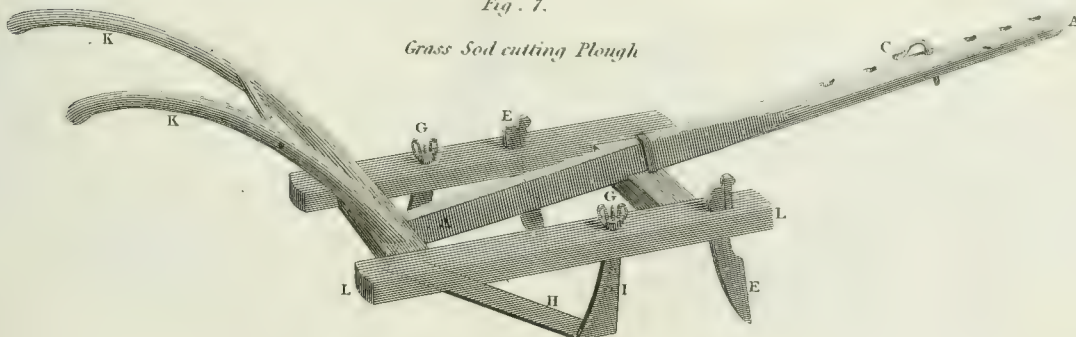
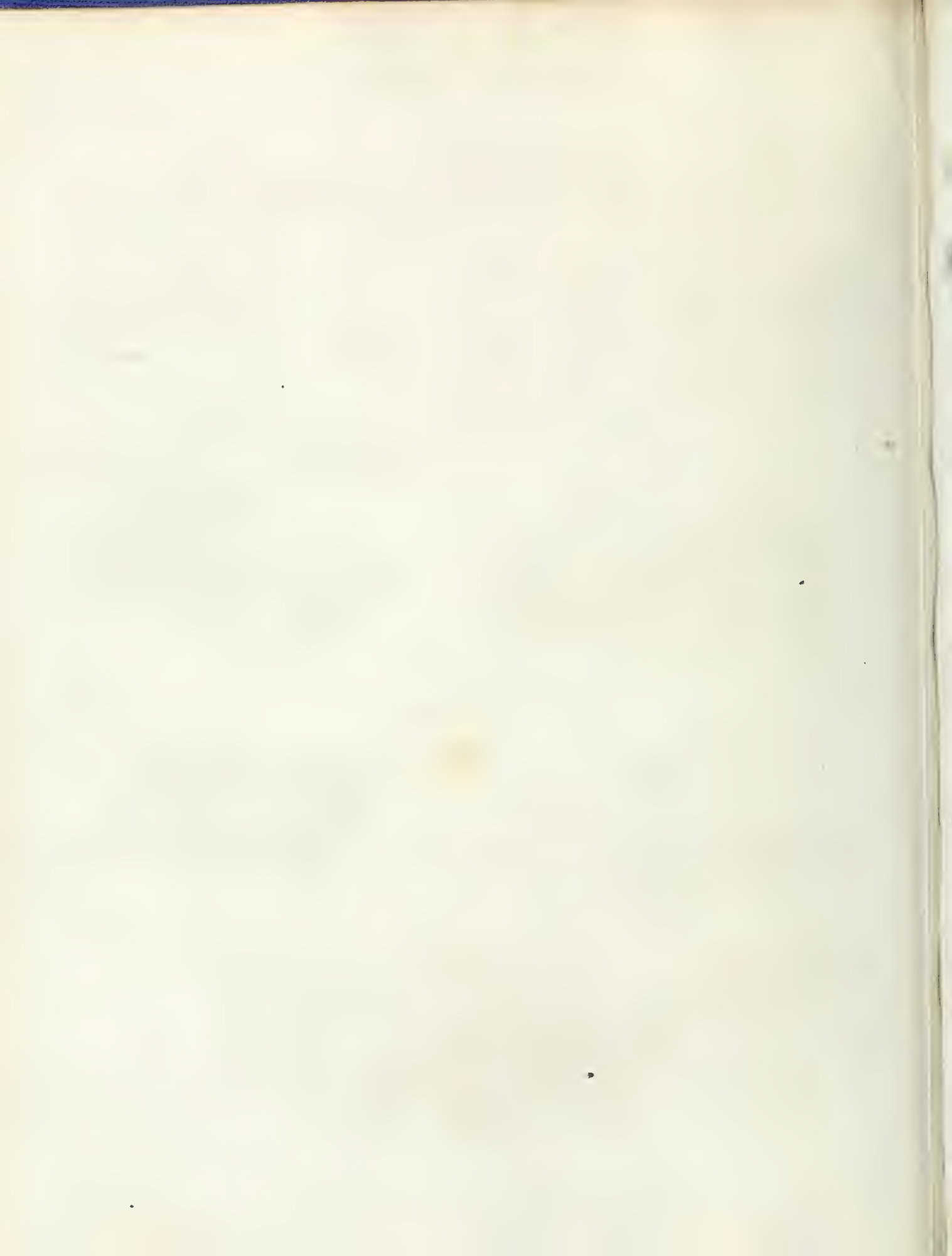


Fig. 7.

Grass Sod cutting Plough



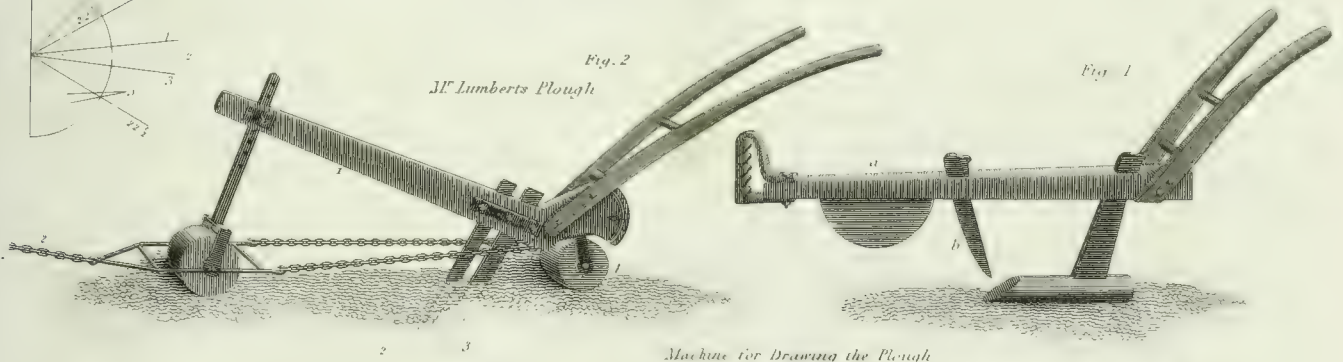




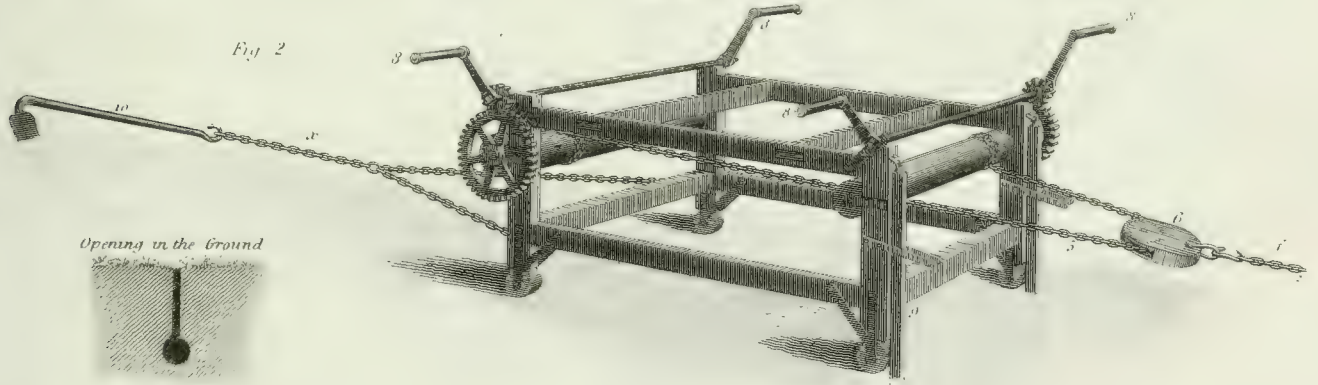
Mole Catching

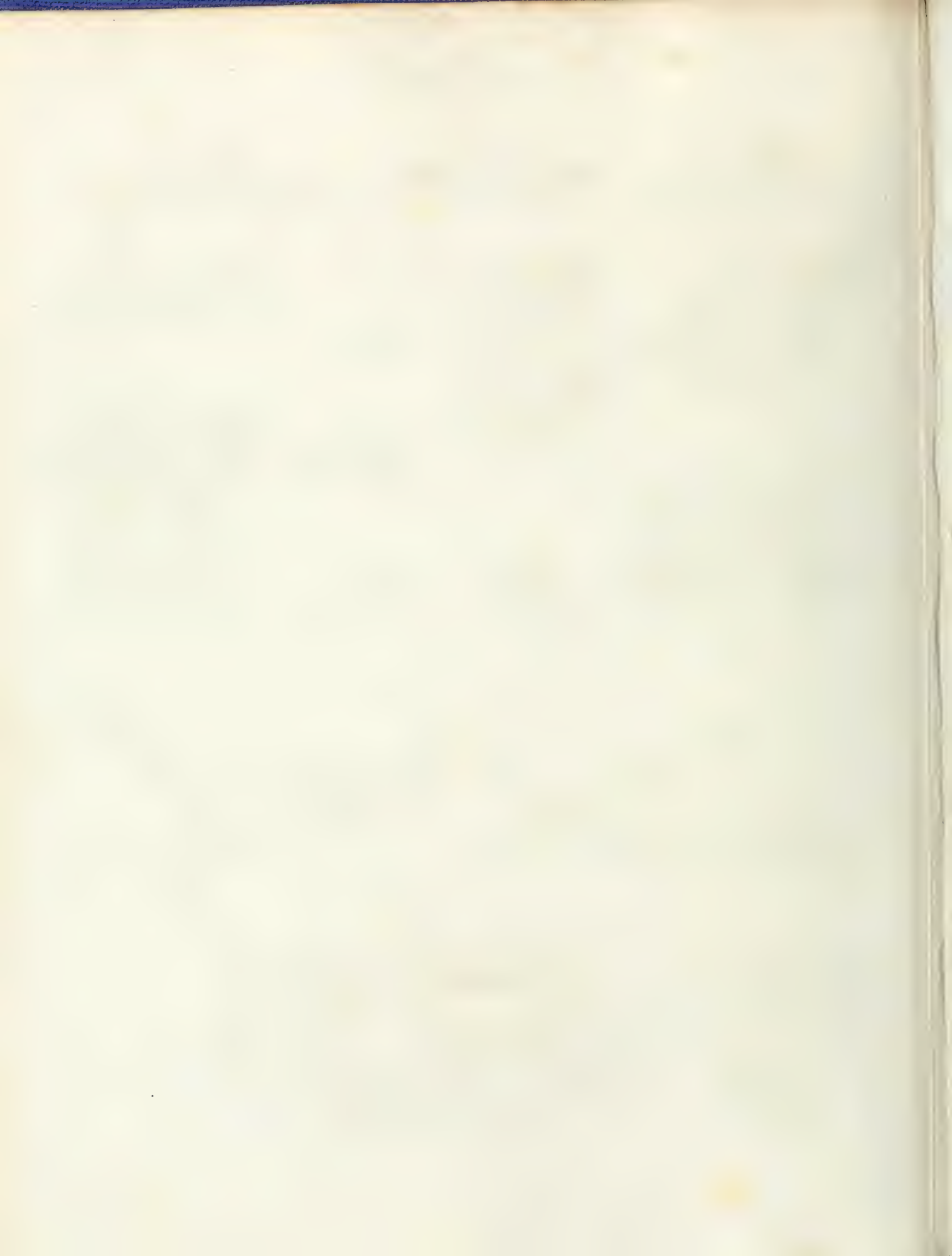


Mole Ploughs



Machines for Drawing the Plough





SWING PLOUGHS.

Fig. 1.

*Rotherham Plough.*

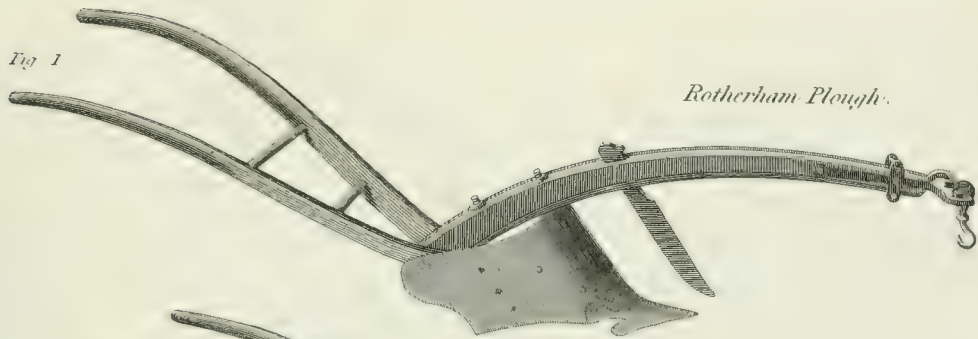


Fig. 2.

*Small's Chain Plough.*

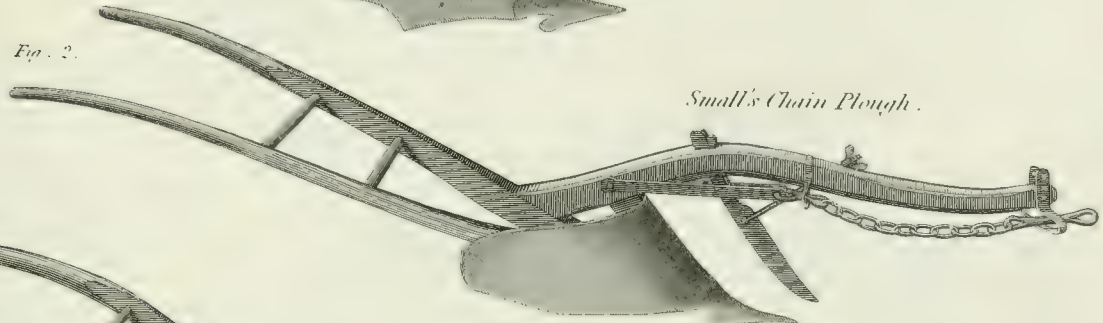


Fig. 3.

*L<sup>d</sup> Sommerville's.*

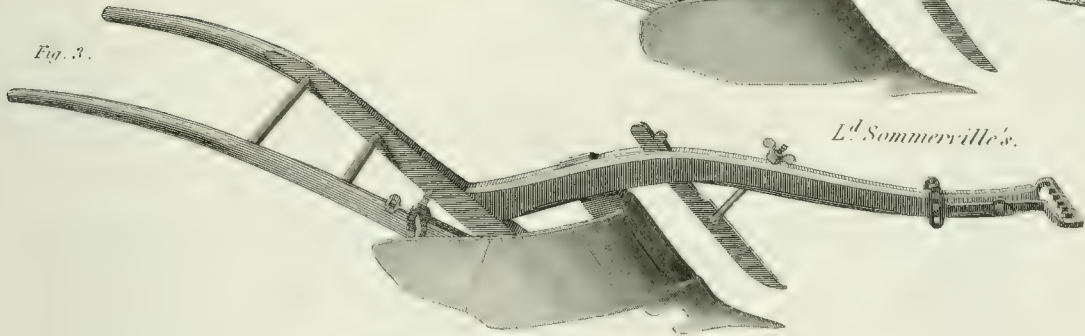


Fig. 4.

*Suffolk Iron Plough.*

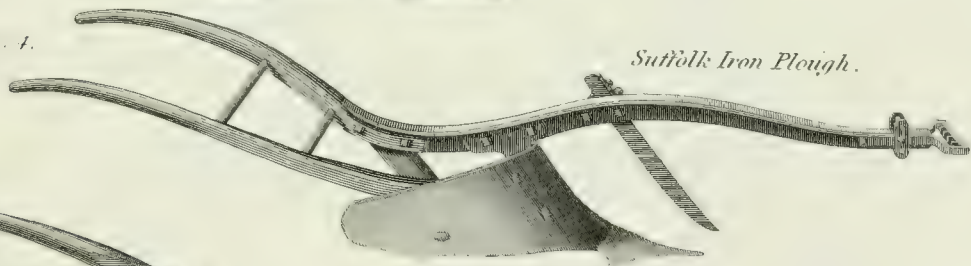


Fig. 5.

*Duckets Skim coulter.*

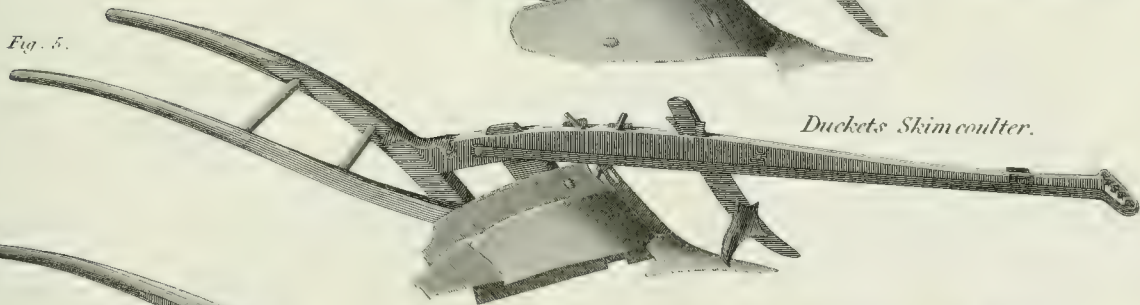
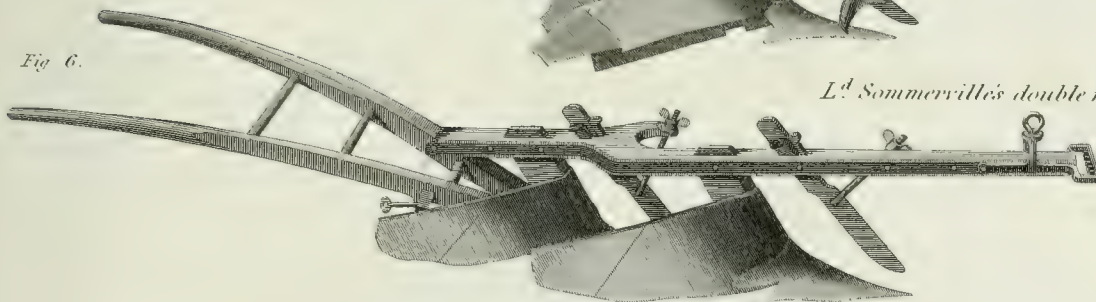
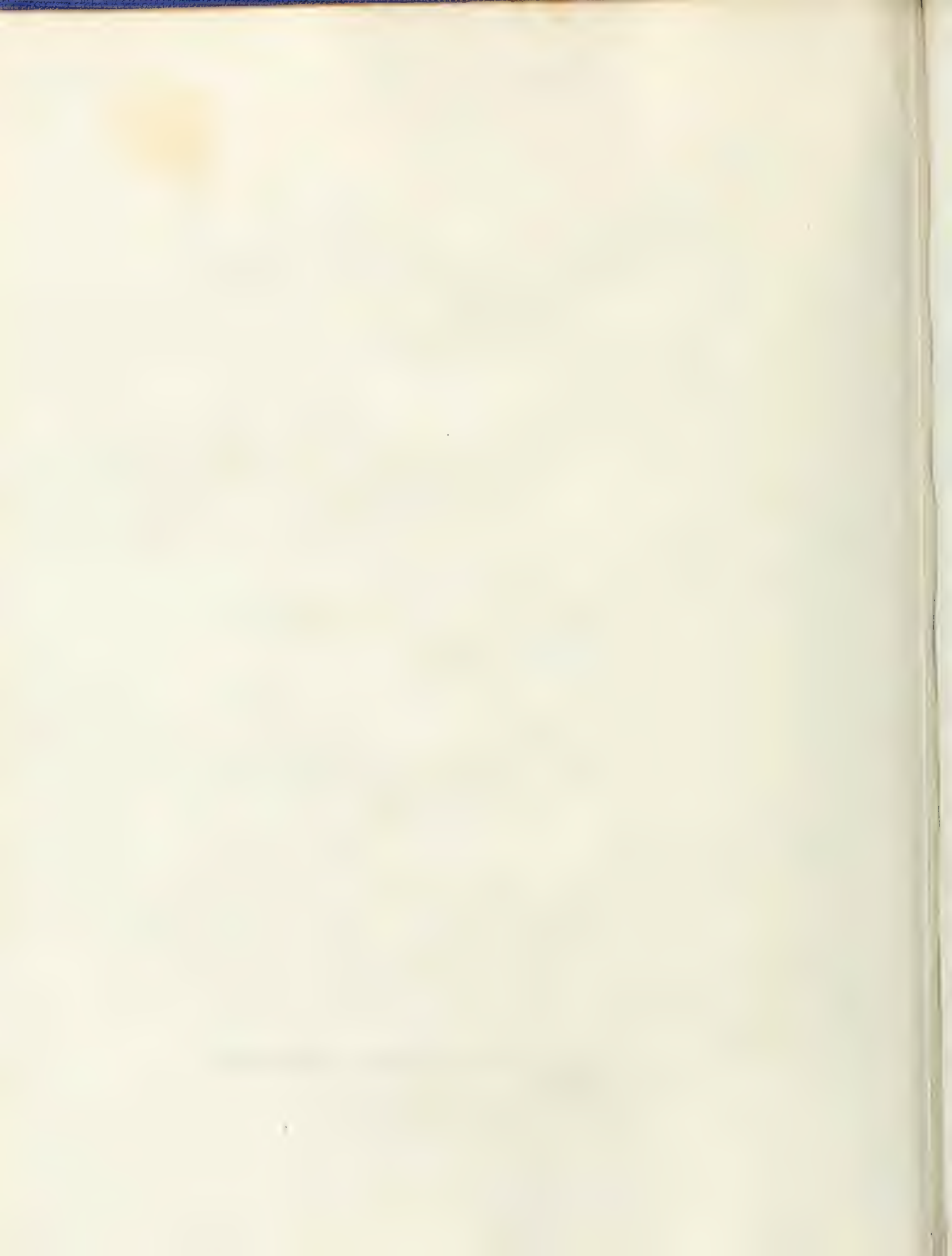


Fig. 6.

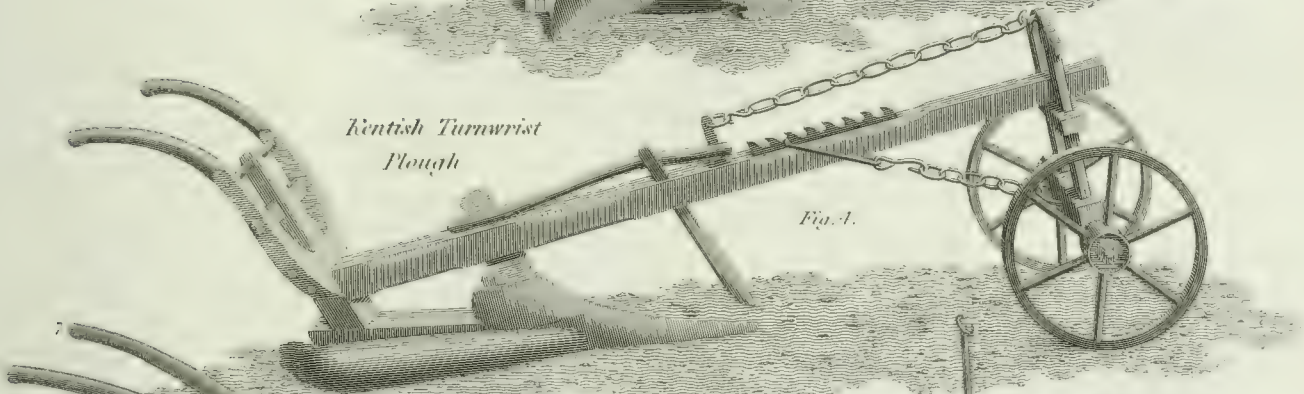
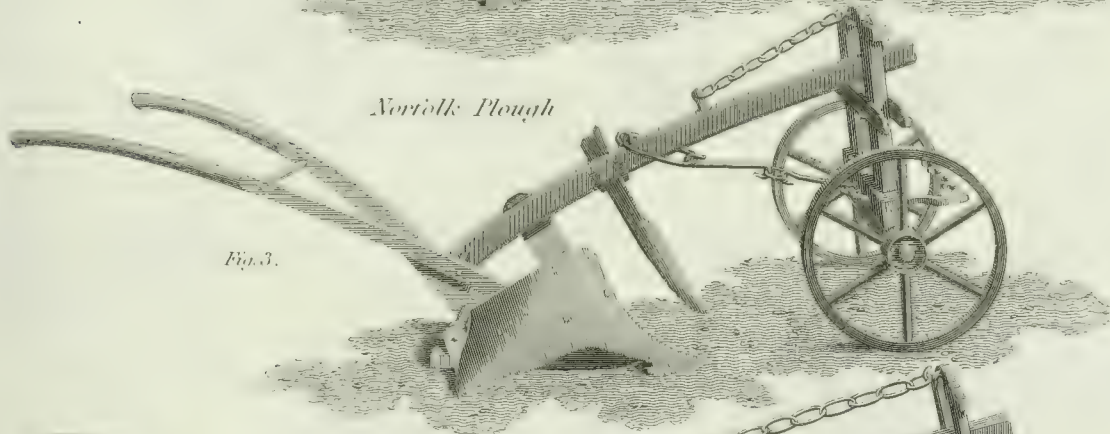
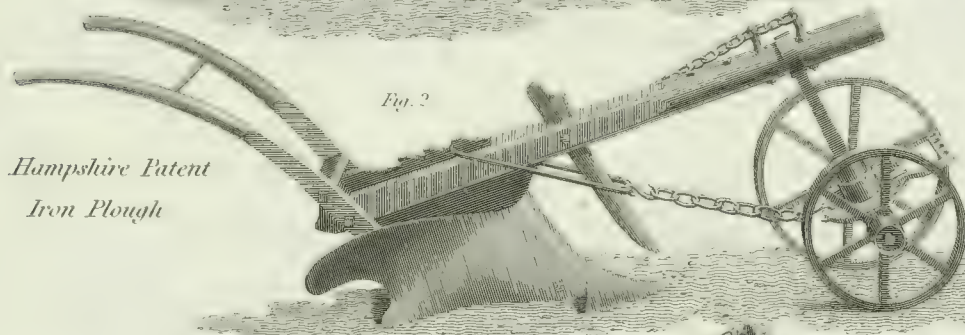
*L<sup>d</sup> Sommerville's double furrow.*

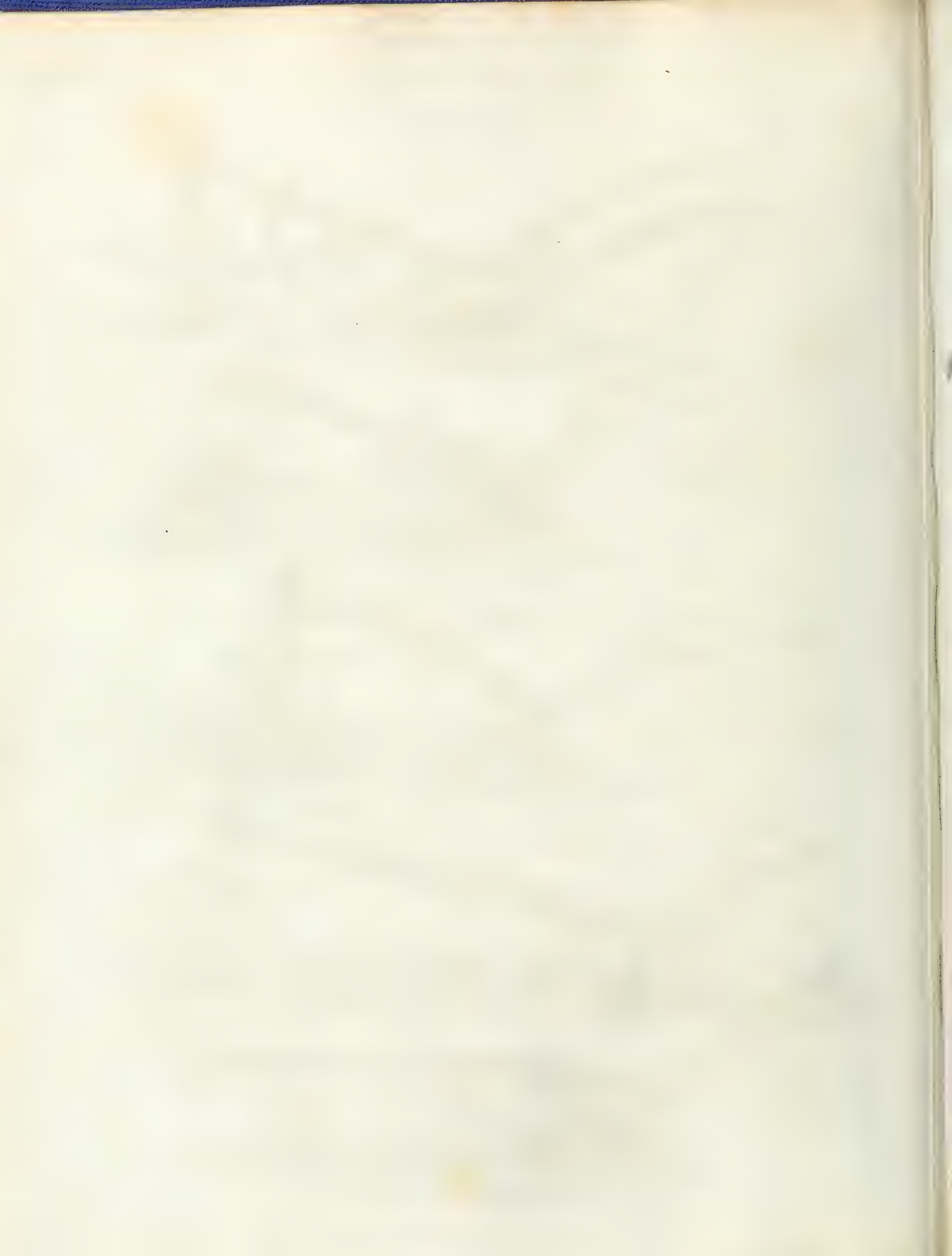






WHEEL PLOUGHS.



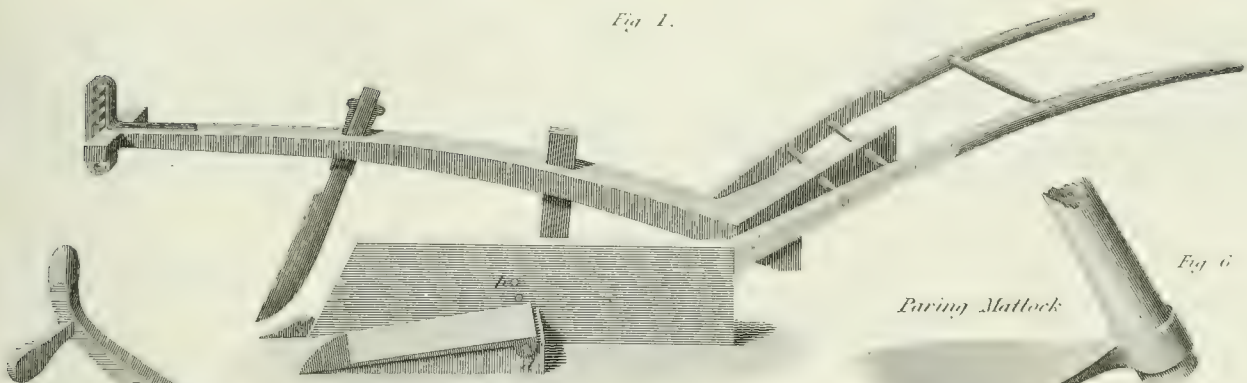




AGRICULTURE.  
PARING PLOUGHS & TOOLS.

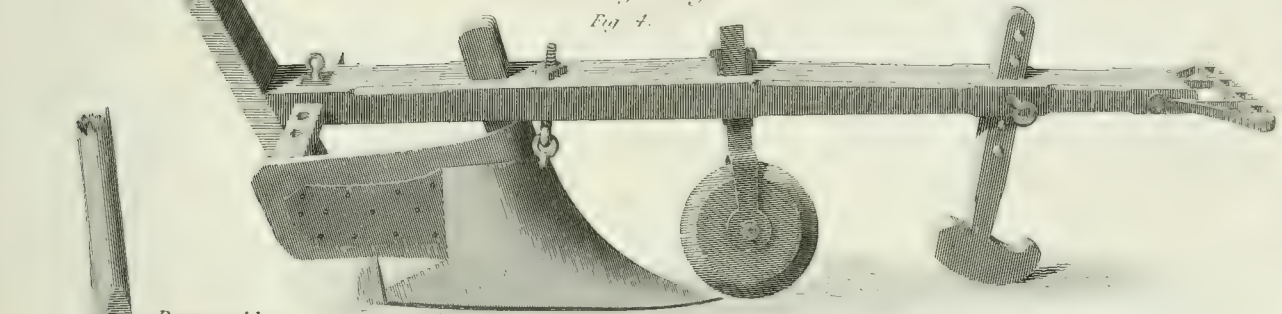
*Cheshire Paring Plough, furrow side view.*

*Fig. 1.*



*Common Paring Plough*

*Fig. 4.*



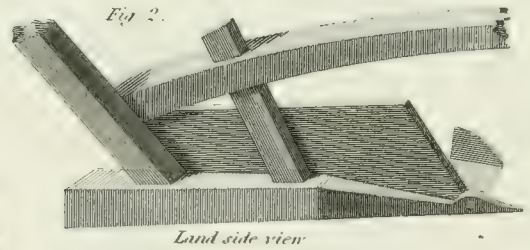
*Paring Adze*

*Fig. 8.*

*Paring Mattock*

*Fig. 6.*

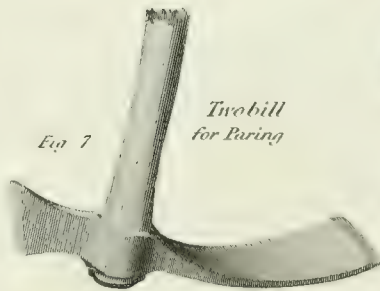
*Fig. 2.*



*Land side view*

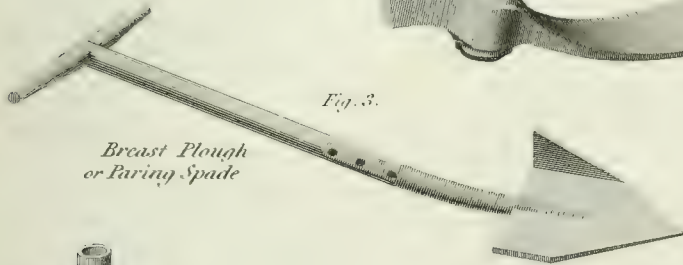
*Fig. 7.*

*Twobill  
for Paring*



*Fig. 3.*

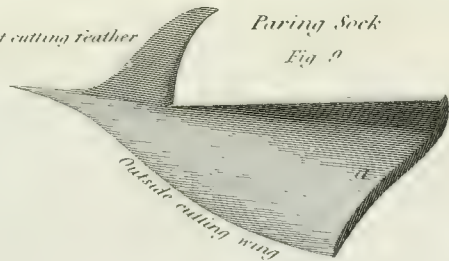
*Breast Plough  
or Paring Spade*



*Upright cutting leather*

*Paring Sock*

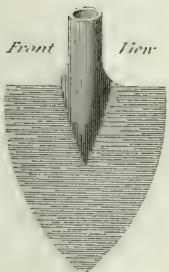
*Fig. 9.*

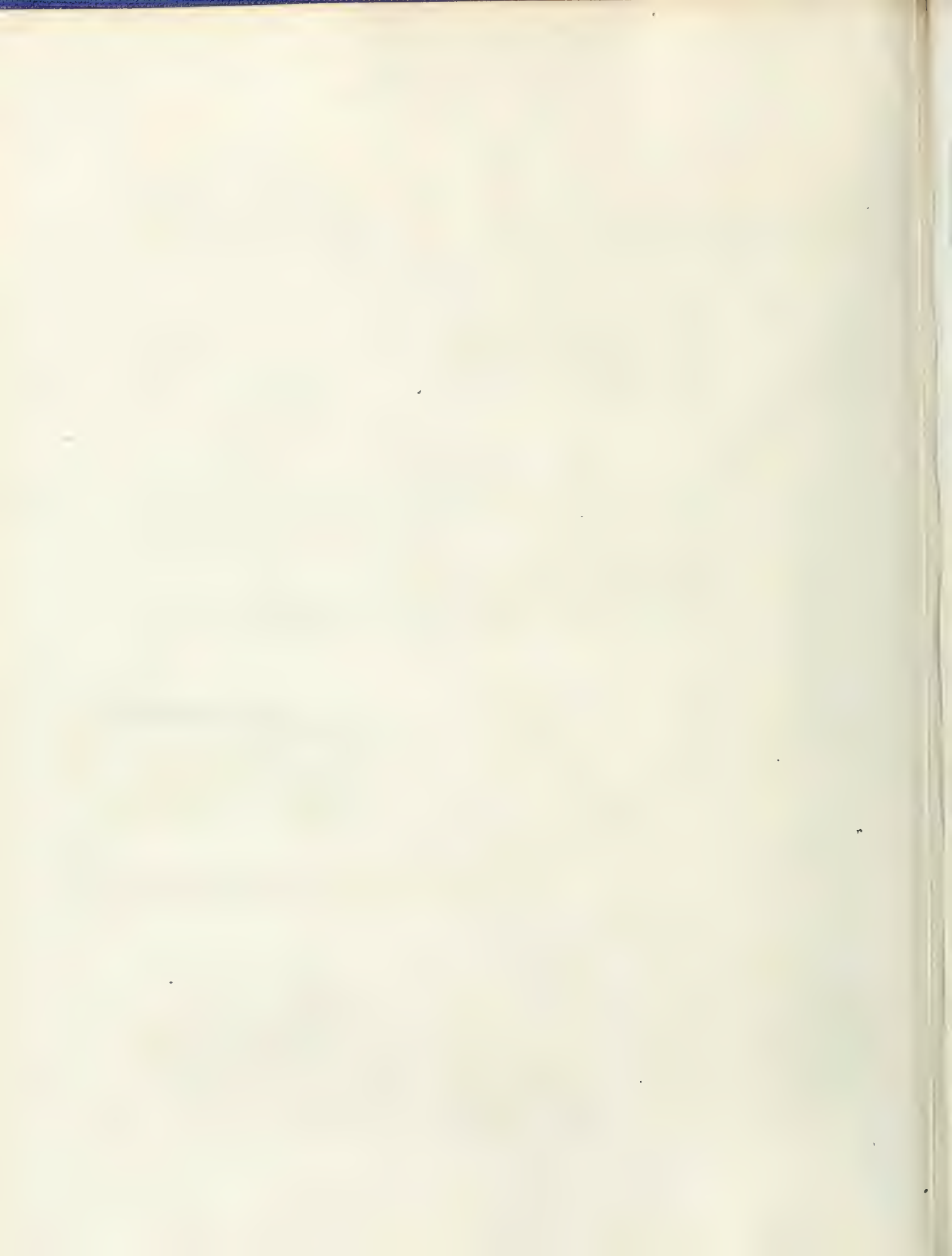


*Front View*

*Paring Shovel*

*Fig. 5.*





# P I S É .

*Implements for Pisé or Rammed Earth Buildings.*

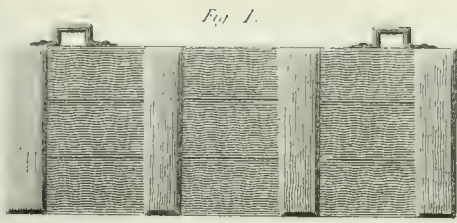


Fig. 1.



Fig. 4.

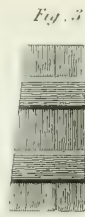


Fig. 5.

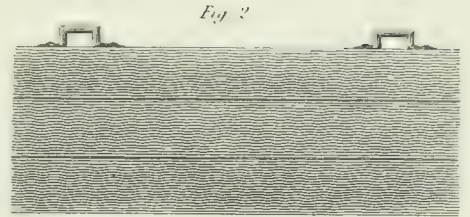


Fig. 2.

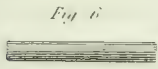


Fig. 6.

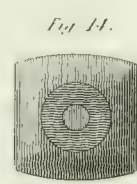


Fig. 11.

Fig. 12.



Fig. 7.

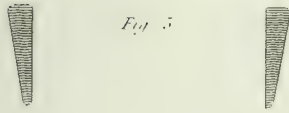


Fig. 5.

Fig. 8.



Fig. 9.

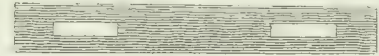


Fig. 10.

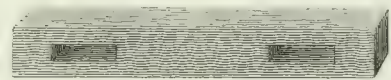


Fig. 15.

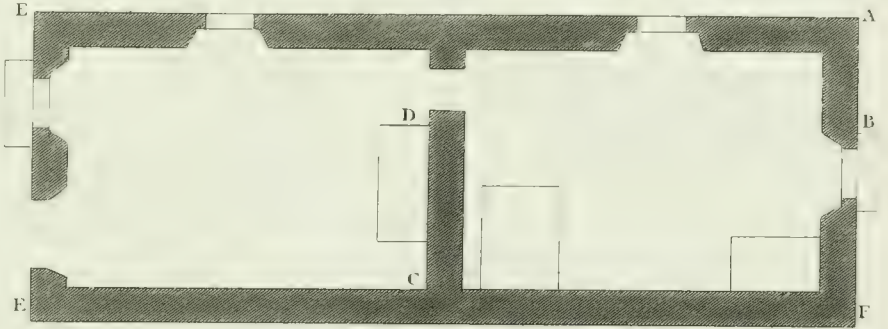


Fig. 17.

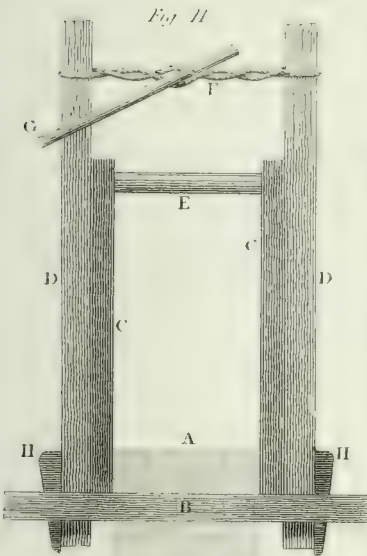
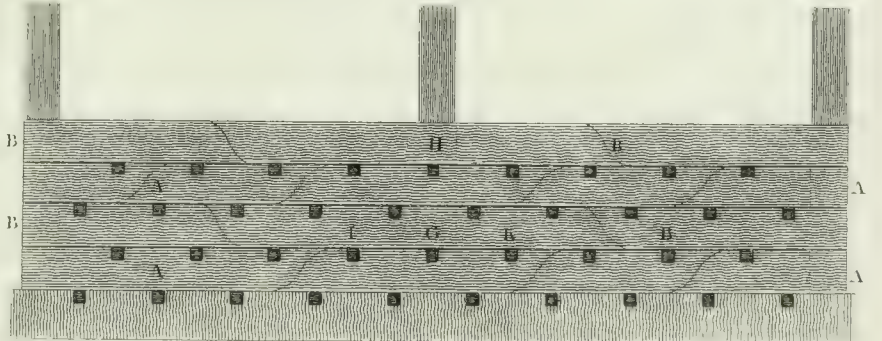
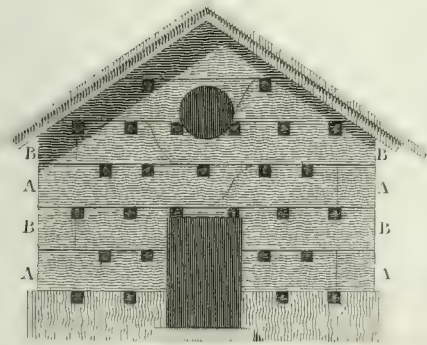


Fig. 11.

Fig. 16.

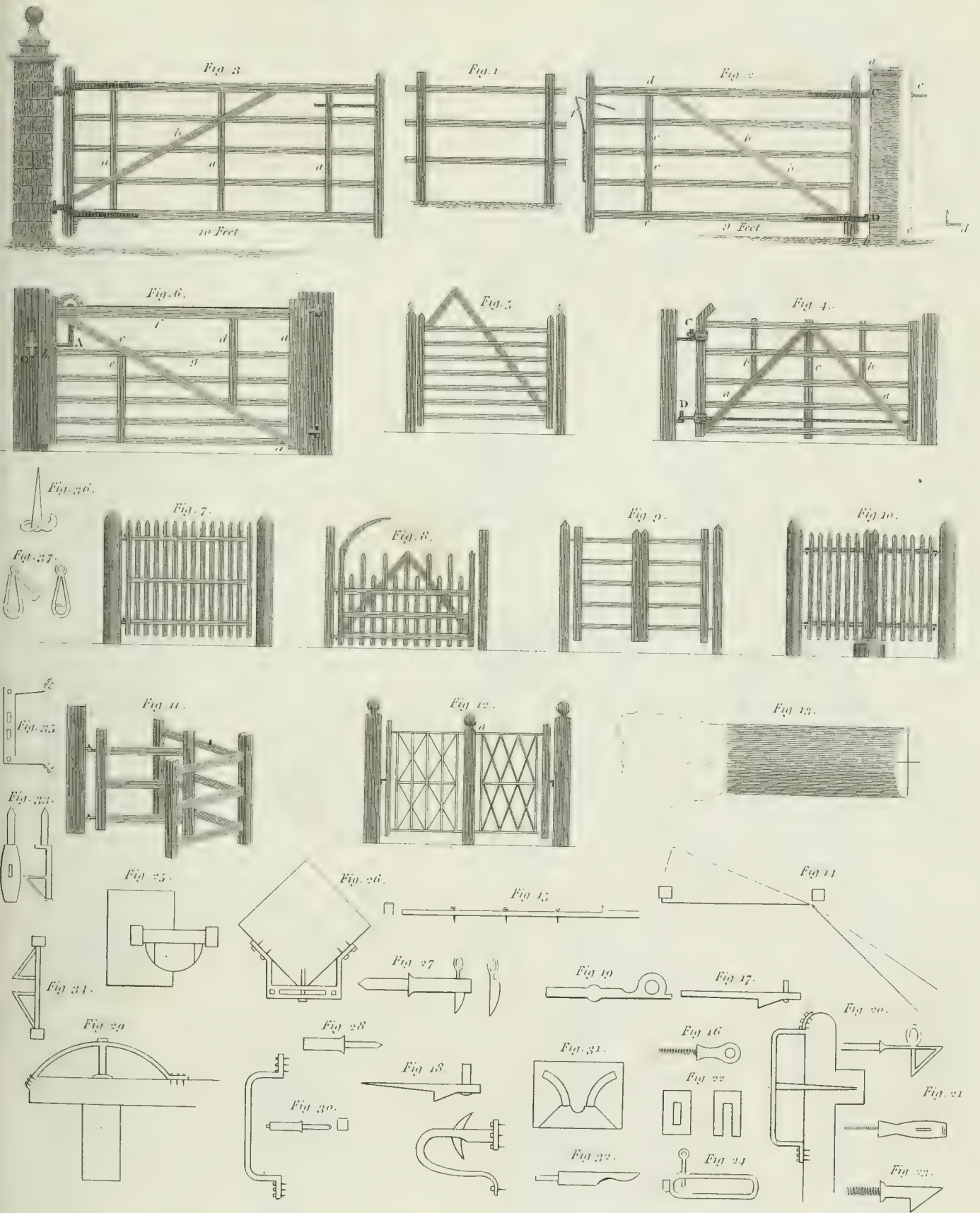






# AGRICULTURE.

## GATES, HANGINGS AND FASTENINGS.







GRASSES.



NATURAL GRASSES

- 1 Crested Vernal G. *Lolium odoratum*
- 2 Foxtail G. *Poa pratensis*
- 3 Smooth Stalked Meadow G. *Poa pratensis*
- 4 Hard Fescue G. *Festuca duriuscula*
- 5 Common Ry G. *Lolium perenne*

- 6 Rough Stalked M.G. *Poa trivialis*
- 7 Flat Meadow G. *Poa compressa*
- 8 Meadow Fescue G. *Festuca pratensis*
- 9 Marsh Meadow G. *Poa palustris*
- 10 Crested Dogstail G. *Cynosurus cristatus*
- 11 Knot Grass *Phleum nodosum*

ARTIFICIAL GRASSES

- 12 Red or Broad Clover *Trifolium pratense*
- 13 Trefoil *Medicago lupulina*
- 14 Saintfoin *Hedysarum onobrichis*
- 15 Rough Cocksfoot G. *Dactylis glomerata*
- 16 Lucern *Medicago sativa*
- 17 White or Dutch C. *Trifolium repens*

Published at the Exp. Agric. Indus. 1854. by the Government of France.

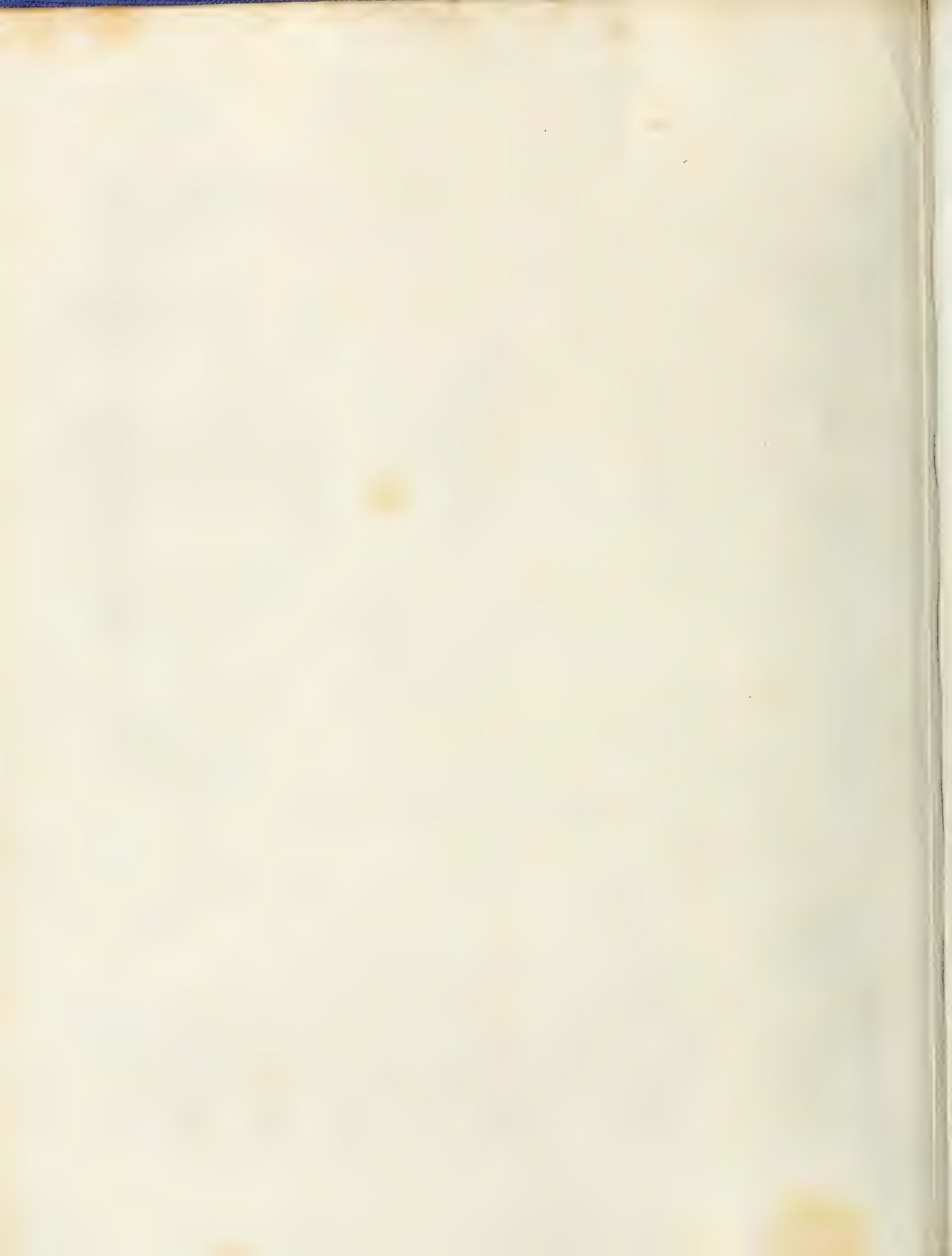


Fig. 3.  
Kiln for General Use.

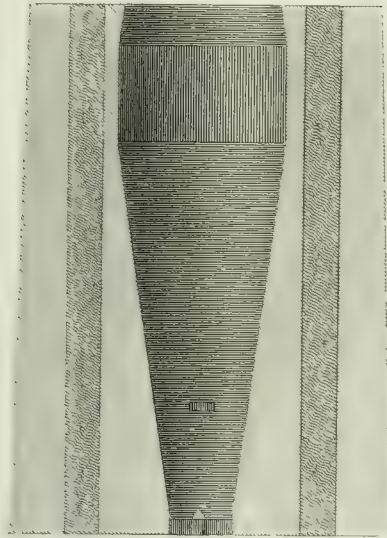


Fig. 2.  
M<sup>r</sup> Rawson's Kiln.

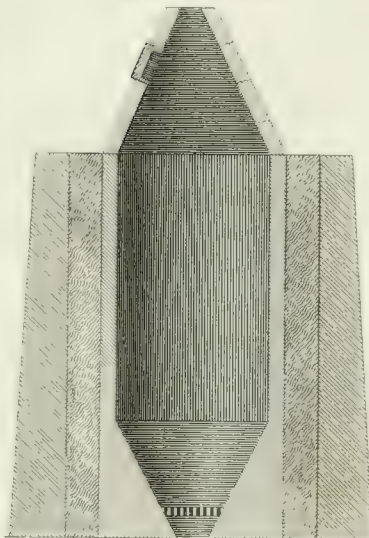
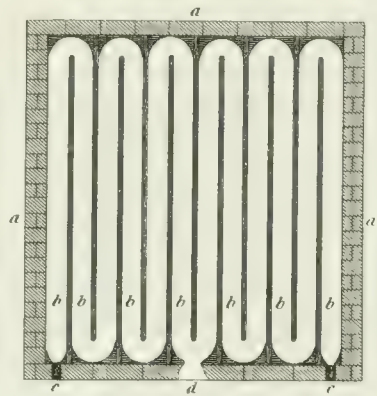


Fig. 8.  
M<sup>r</sup> Coppinger's Malt Kiln.



M<sup>r</sup> Pepper's Malt Kiln.

Fig. 6. Plan of the Floor of the Kiln.

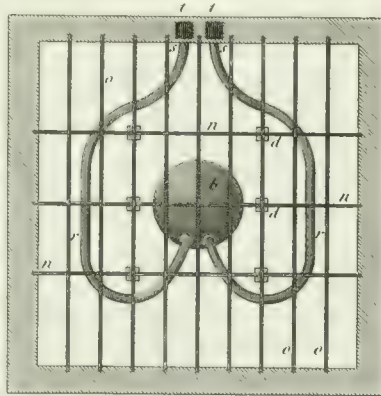
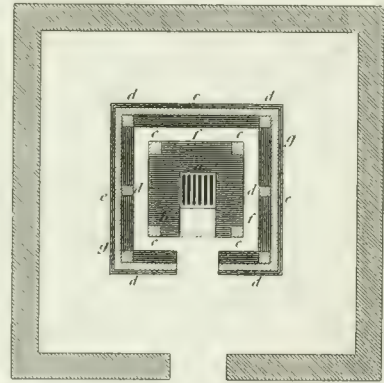


Fig. 4. Ground Plan.



Count Rumford's  
Lime Kiln.

Fig. 1.



Section of the Chimney.

Fig. 7.

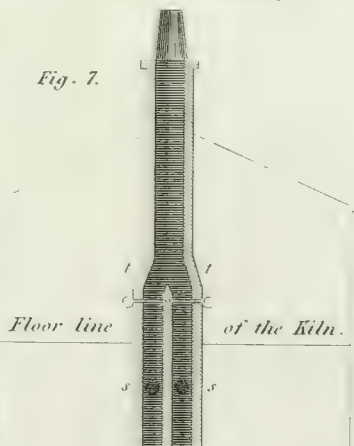
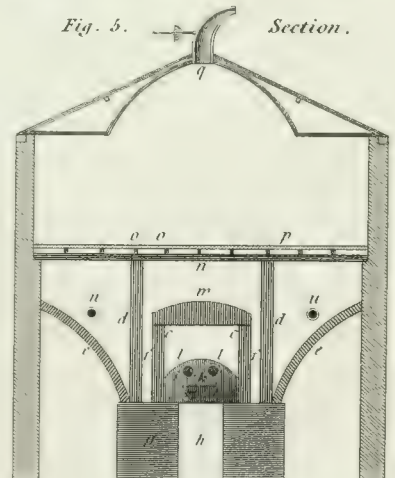
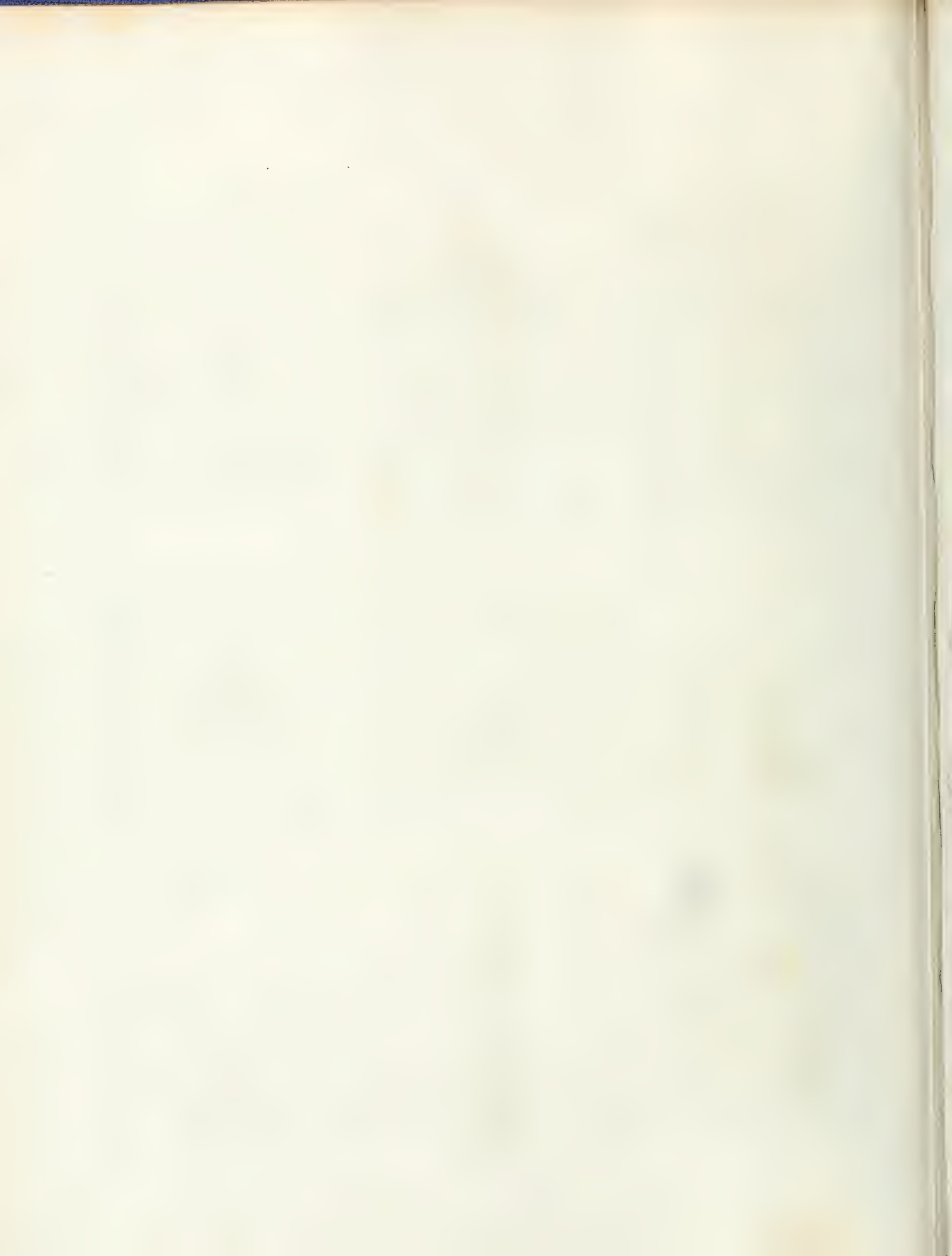


Fig. 5. Section.

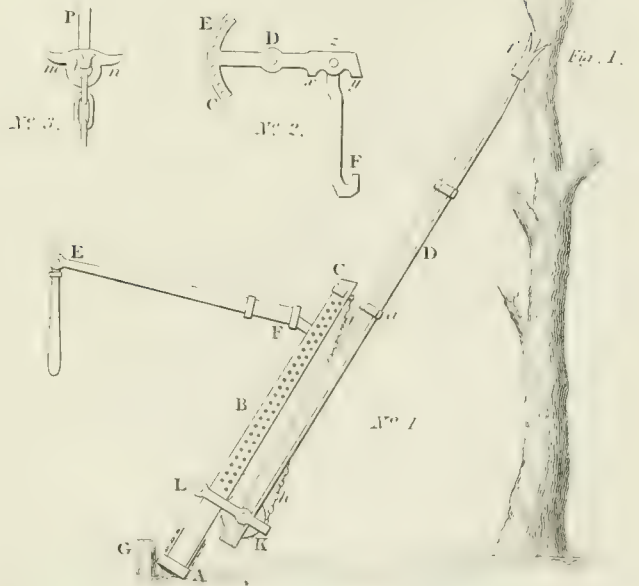
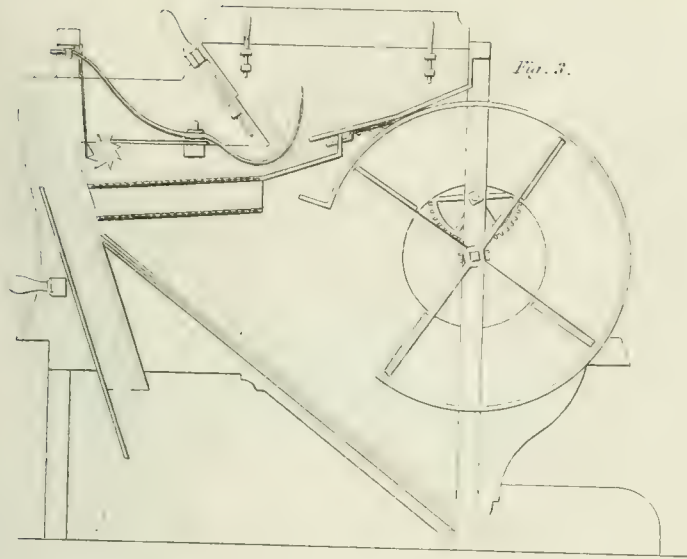






Fan Machine.

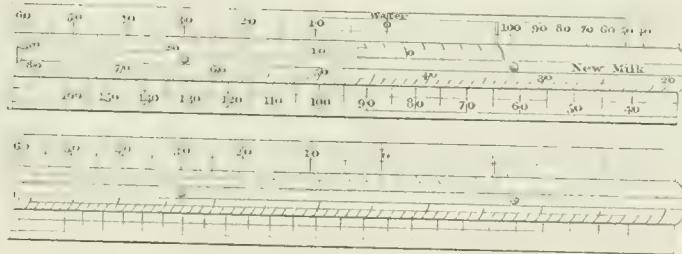
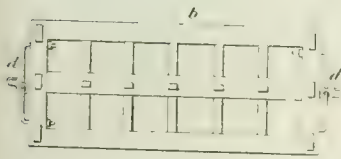
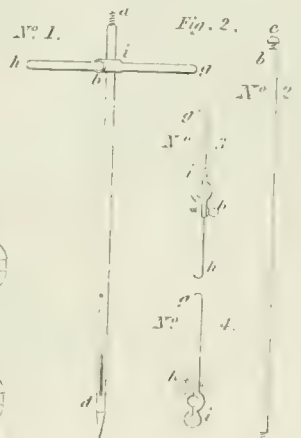
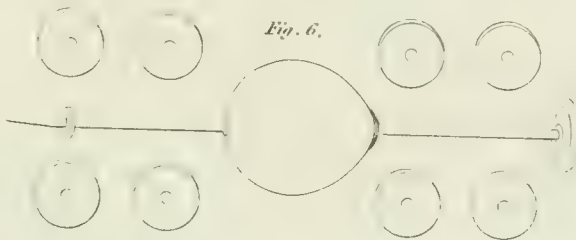
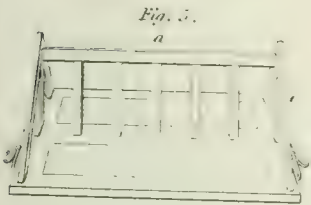
Berne Machine.



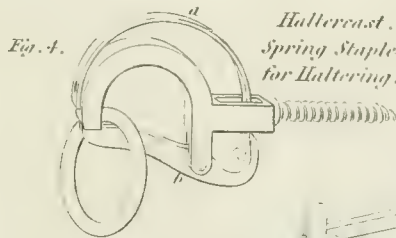
Yorkshire Hay Sweep.

Lactometer.

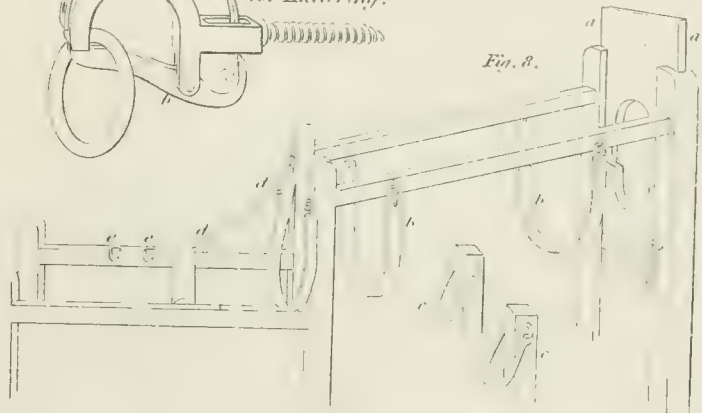
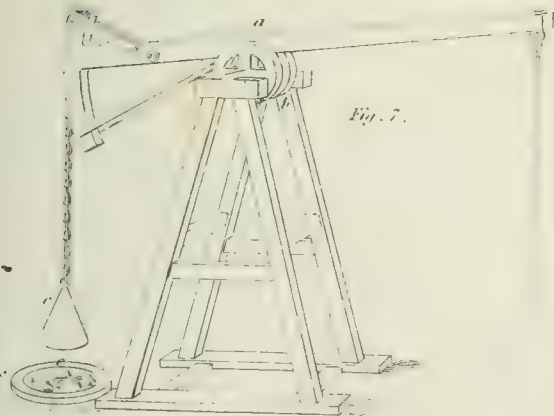
Borers.

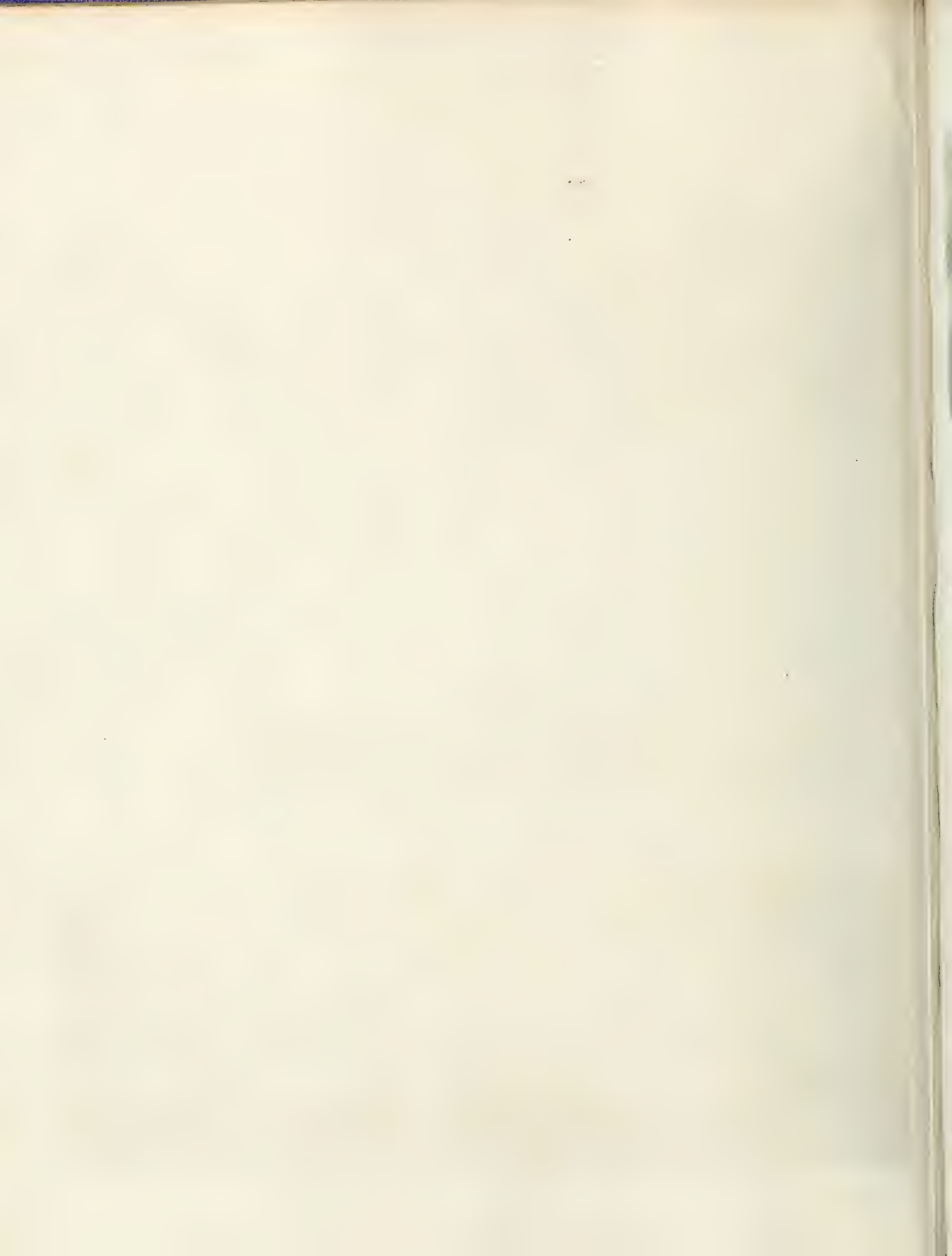


Lime Stone Pounding Machine.



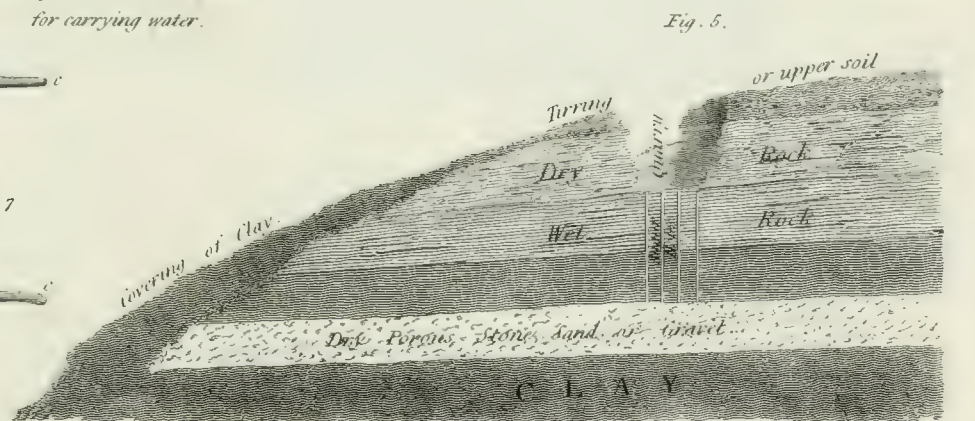
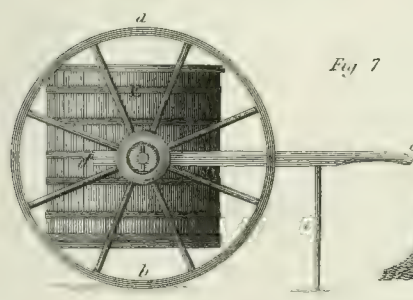
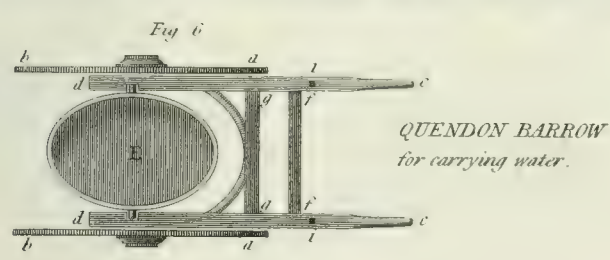
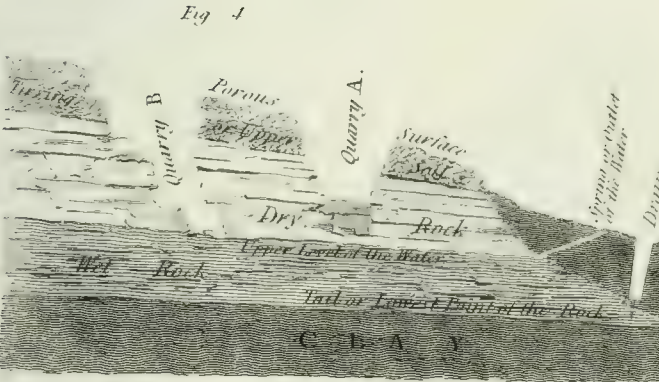
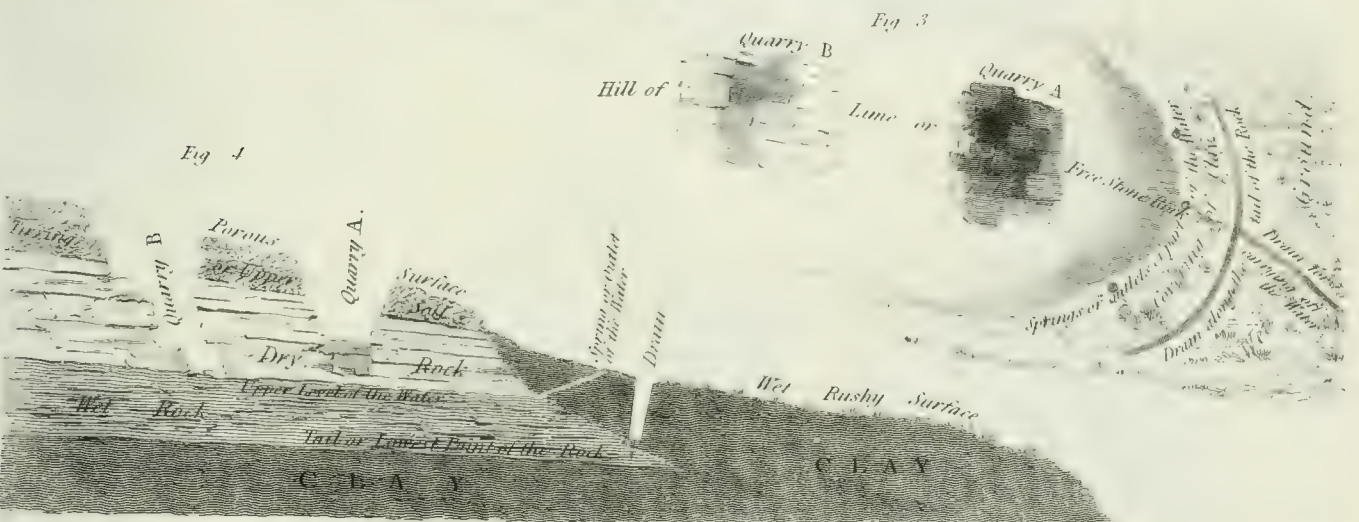
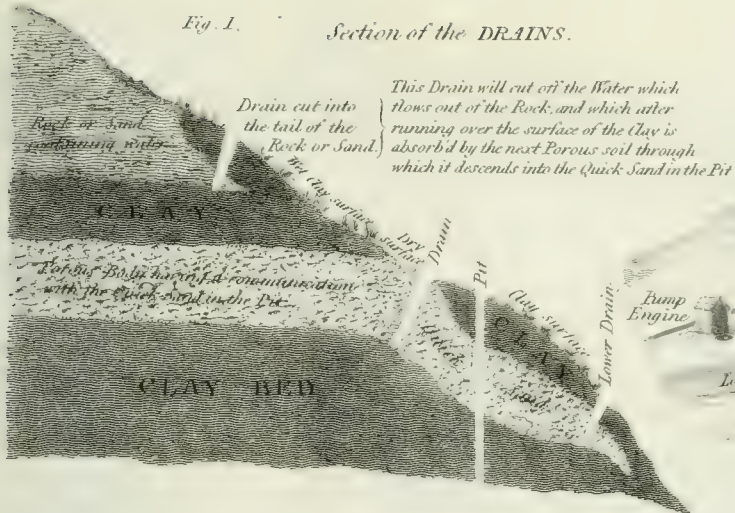
Ox Shoeing Machine.



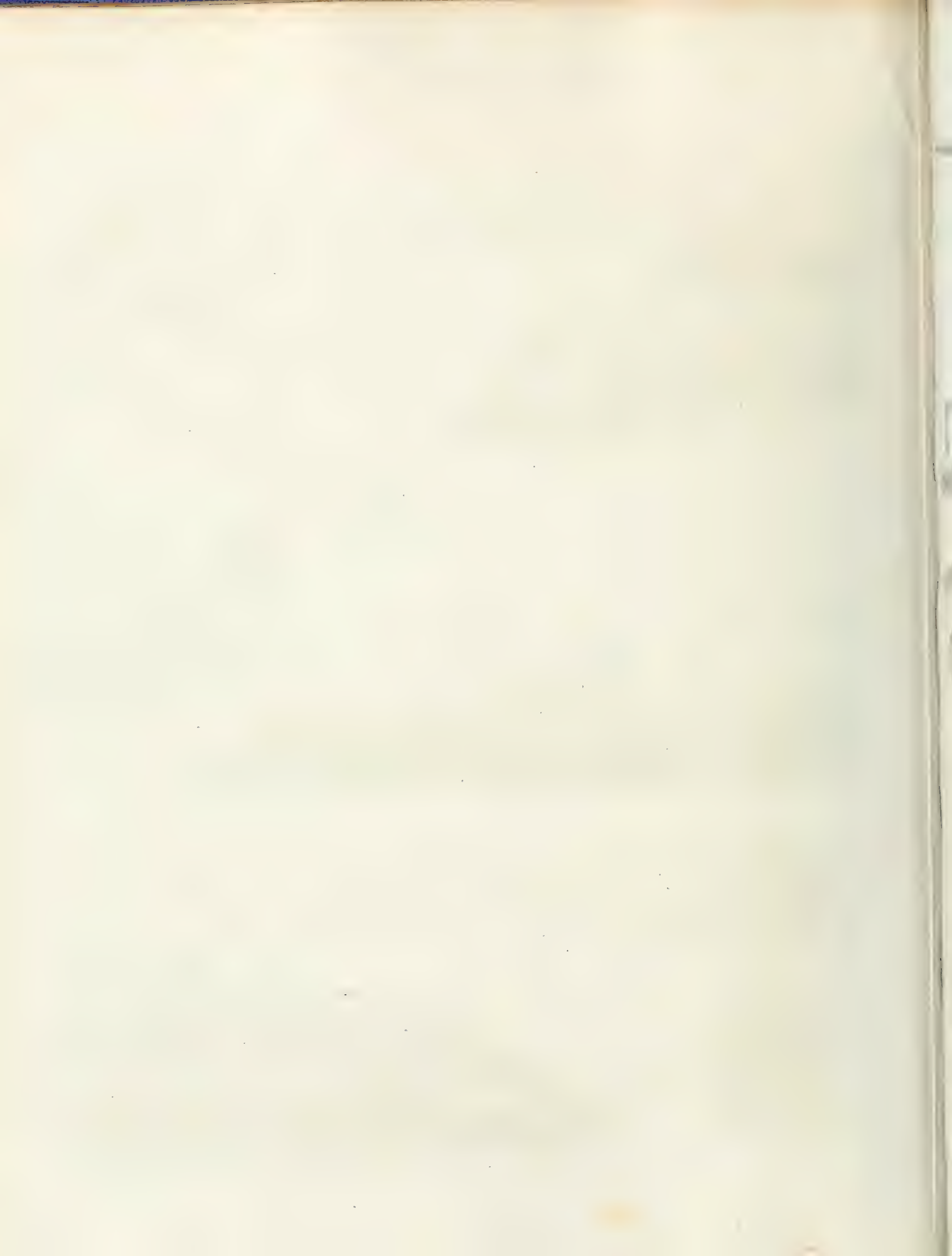




QUARRIES, PITS, MINES & Draining them.



Perhaps under this Clay Bed there may be another dry porous Stratum into which the water may be let down and reduced to a still lower level, and this may be ascertained by boring an auger hole through the Clay.





AGRICULTURE.  
 POTATOE HARROW and SET SCOOPS.

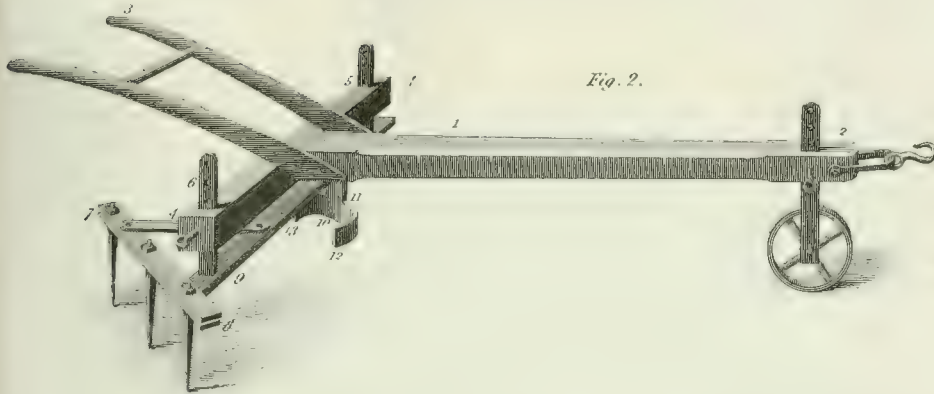
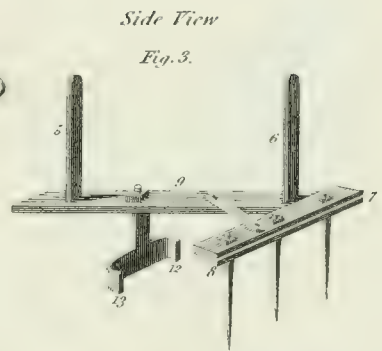


Fig. 2.



Side View

Fig. 3.

Construction of Ponds.

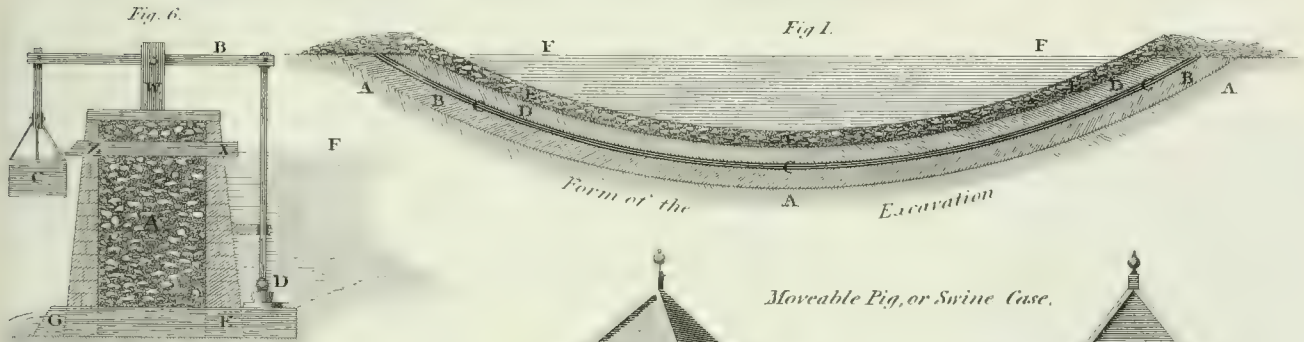


Fig. 6.

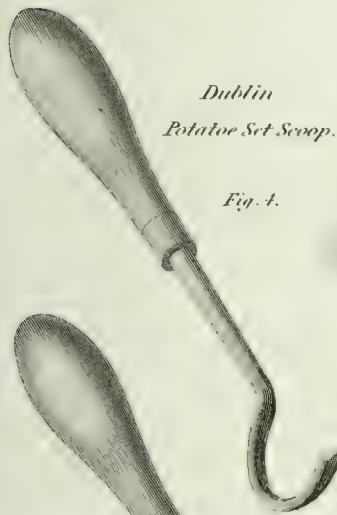
Fig. 1.

Form of the Excavation

Moveable Pig, or Swine Case.

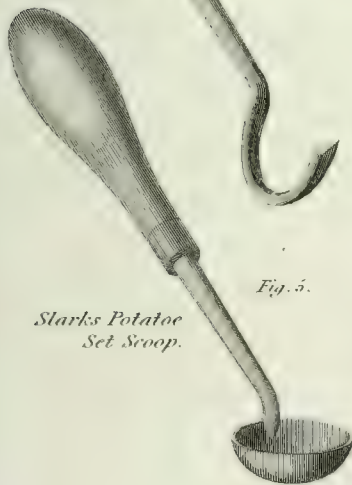


Fig. 8.



Dublin  
 Potatoe Set Scoop.

Fig. 4.



Slarks Potatoe  
 Set Scoop.

Fig. 5.

Fixed Pig or Swine Case.

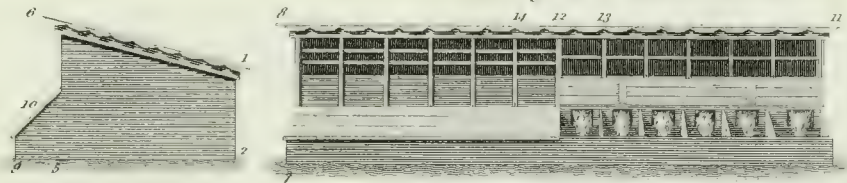
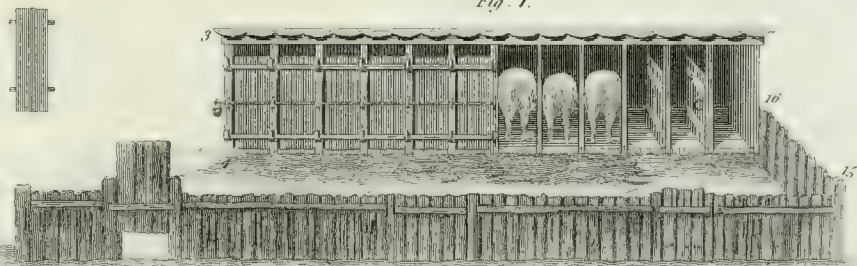
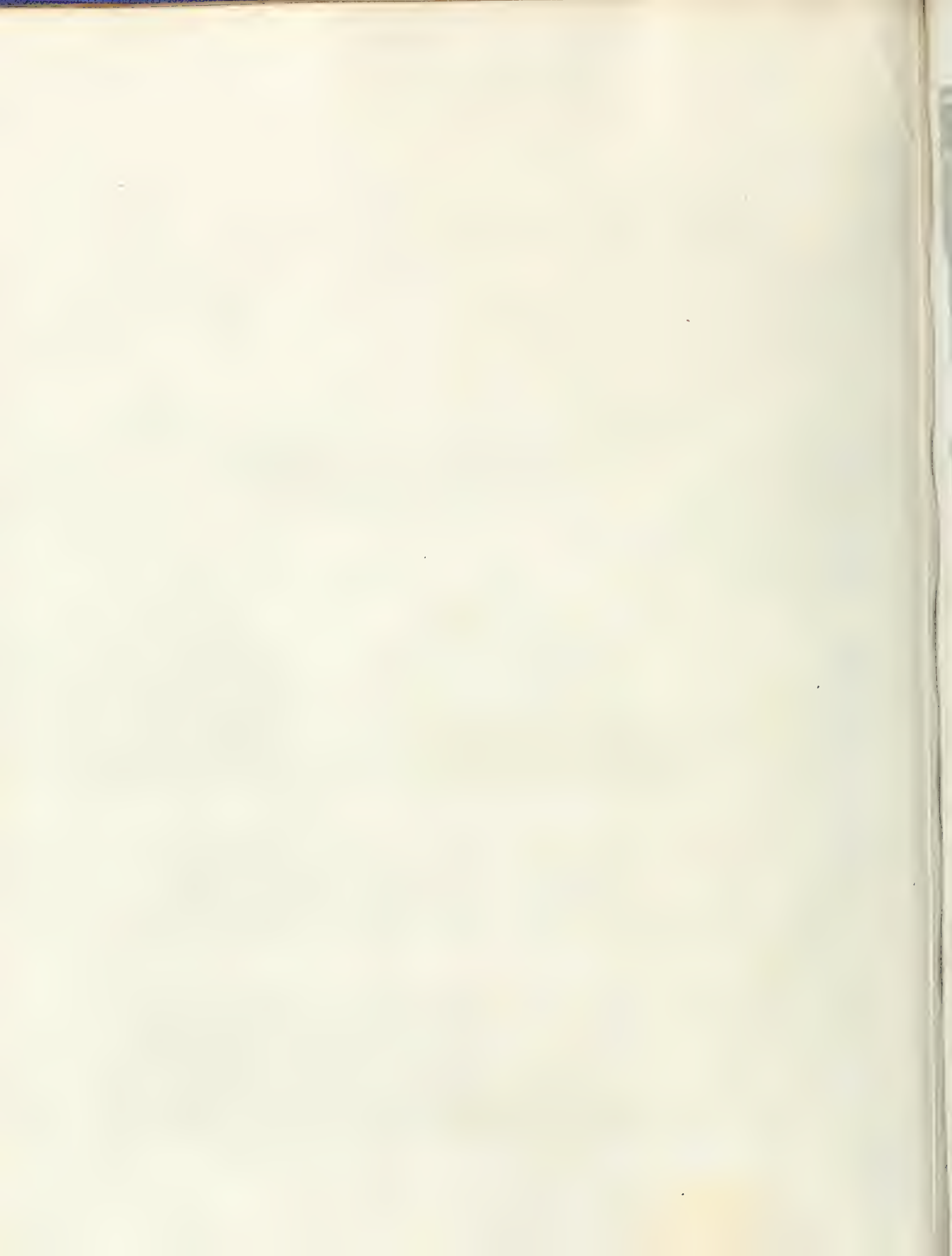


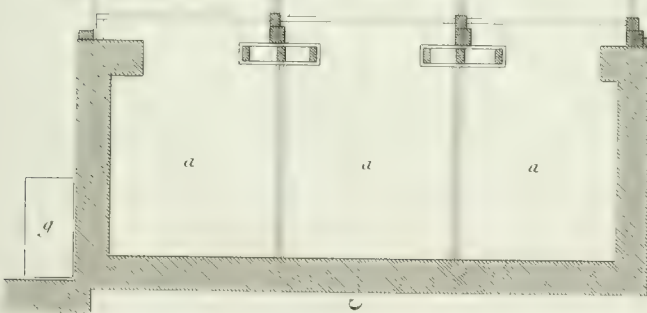
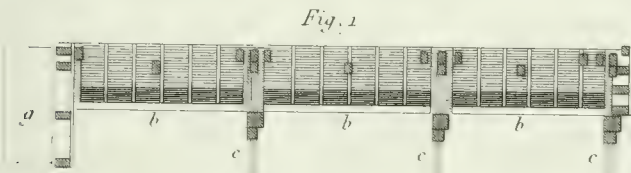
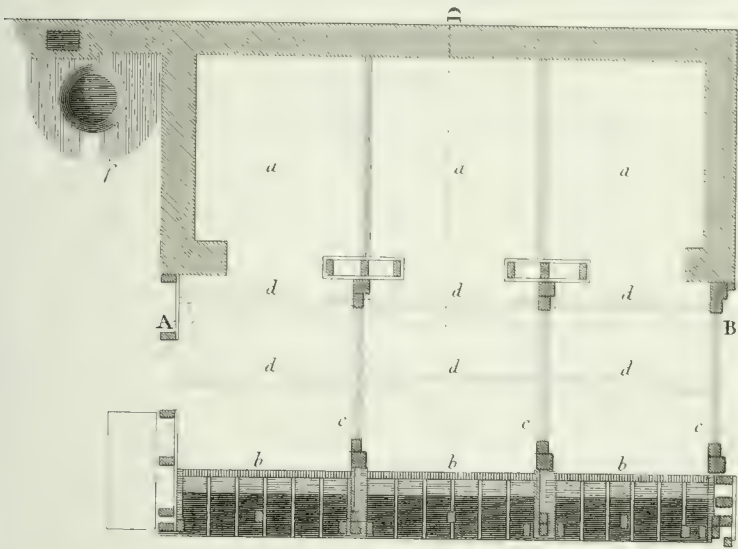
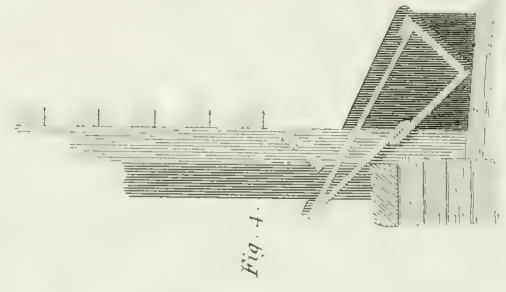
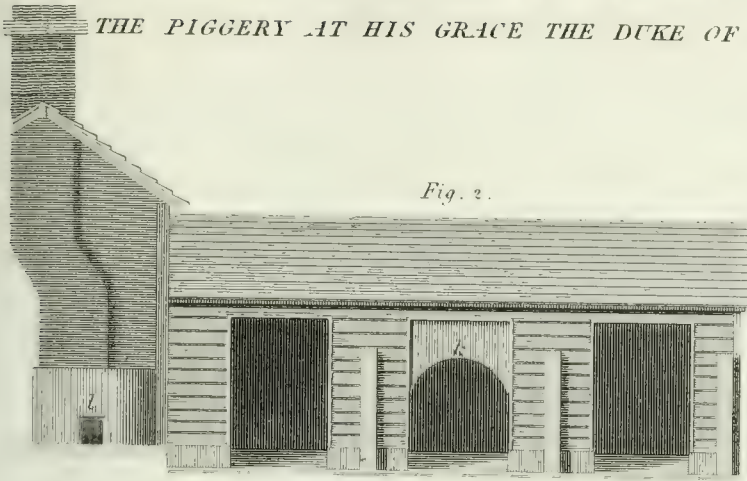
Fig. 7.







THE PIGGERY AT HIS GRACE THE DUKE OF BEDFORD'S FARM AT WOBURN ABBEY.



5 10 20 30 40 Feet

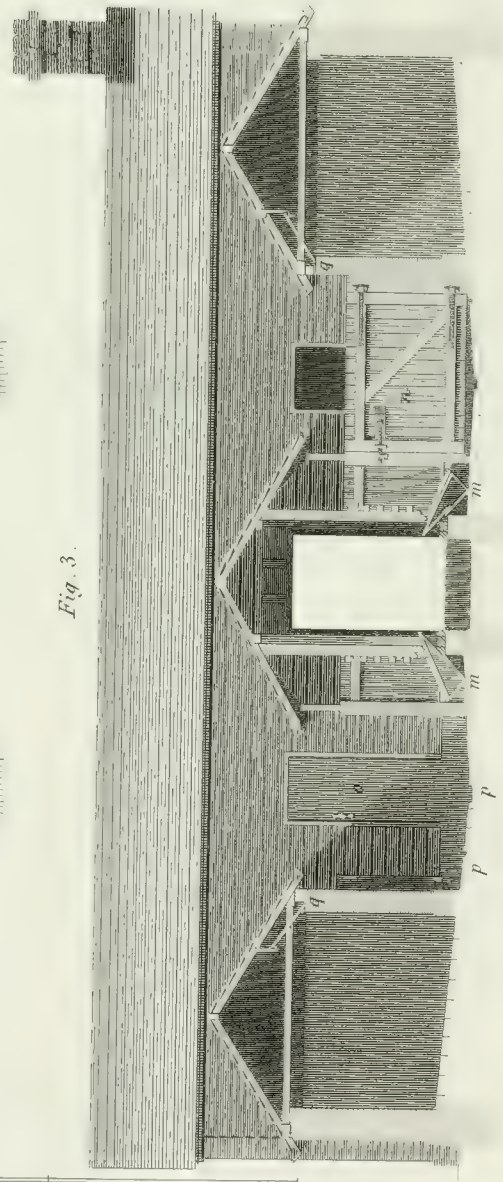
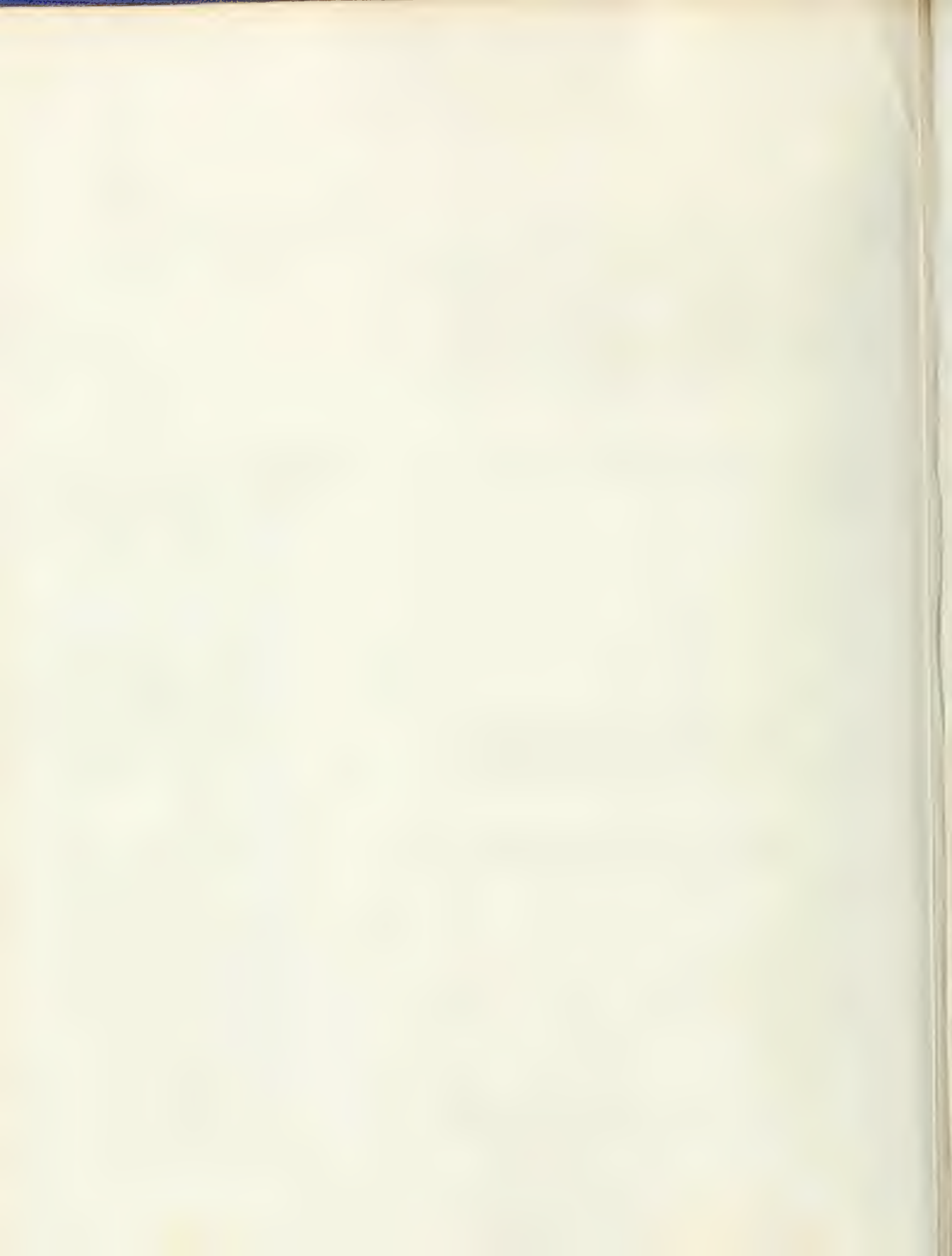


Fig. 3.





PALPABLE ARITHMETIC AND WRITING.

Fig. 1.



Fig. 2.

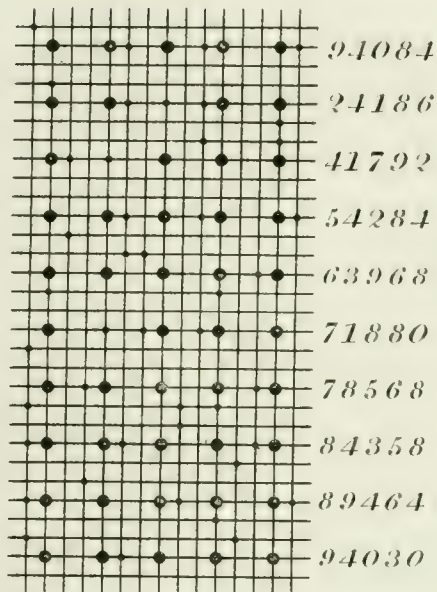
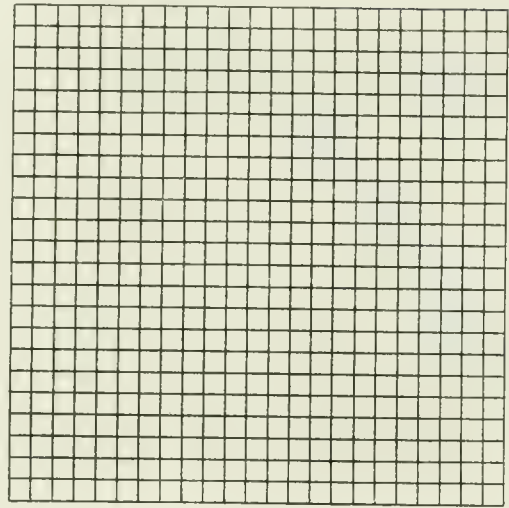


Fig. 3.



ART OF WRITING IN THE DARK.

Fig. 7.

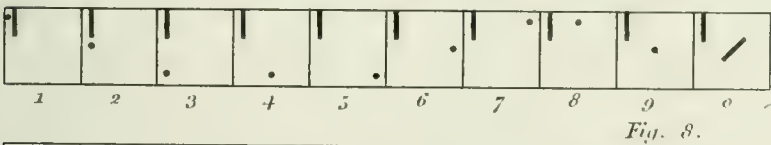
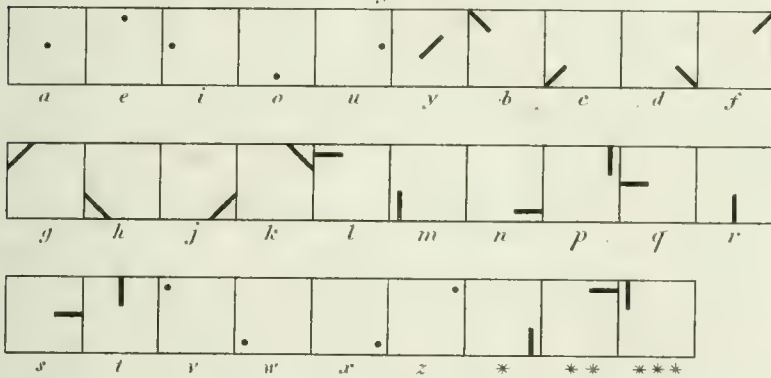
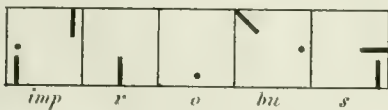


Fig. 8.



Denominations of the Letters.

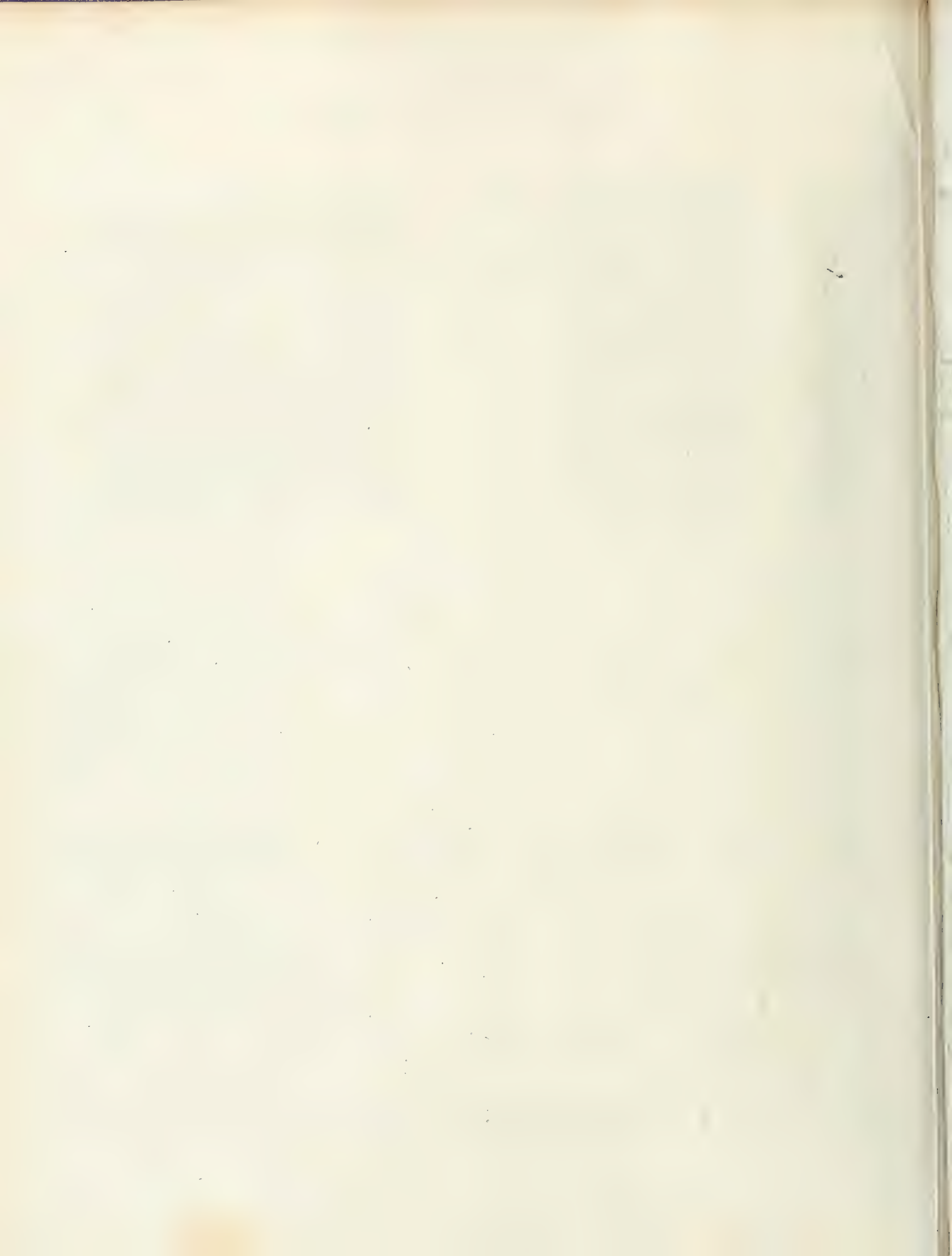
1	2	3	4	5	6	7	8	9	10	11	12	13
b	l	i	c	m	o	d	u	u	f	p	e	a
g	q	h	r	j	s	k	y					
v	w	x	z									

\* The square distinguished by one star underneath contains the mark to denote the end of a word.

\*\* The square so distinguished contains the mark denoting a capital letter.

\*\*\* The square so distinguished contains the mark signifying a numeral character or number.

$\frac{1}{2}$	12	11 10
3	13	9
4 5	6	$\frac{8}{7}$



CISSOID.

CONCHOID.

Fig. 1.

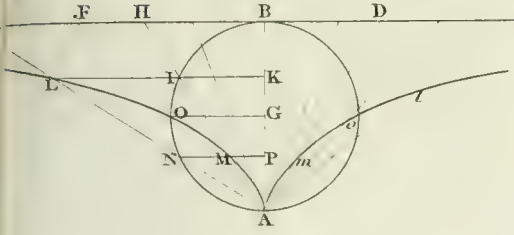


Fig. 2.

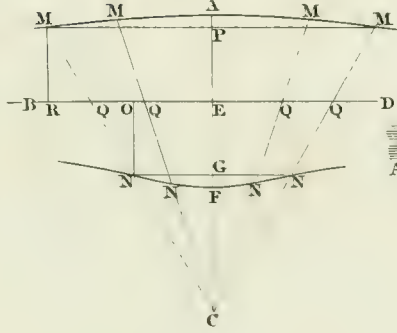


Fig. 3.

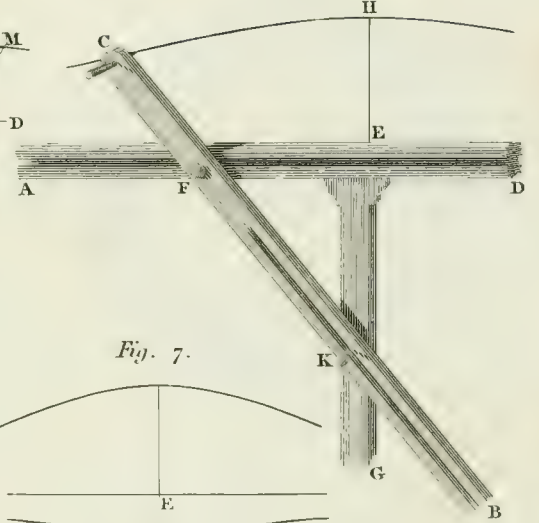


Fig. 4.

Fig. 5.

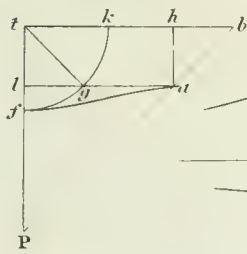
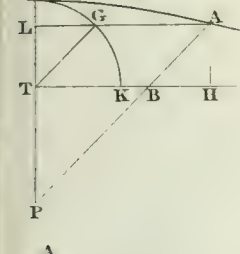
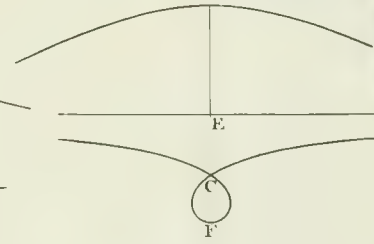
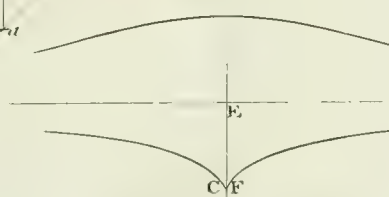


Fig. 6.

Fig. 7.



CONSTRUCTION.

Fig. 8.

Fig. 9.

Fig. 10.

Fig. 11.

Fig. 12.

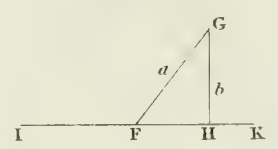
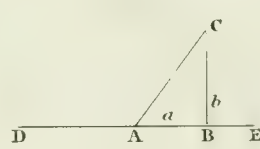
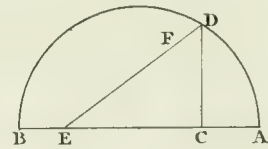
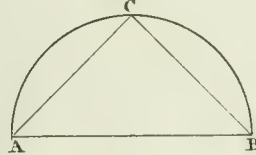
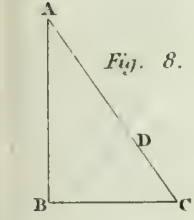


Fig. 13.

Fig. 14.

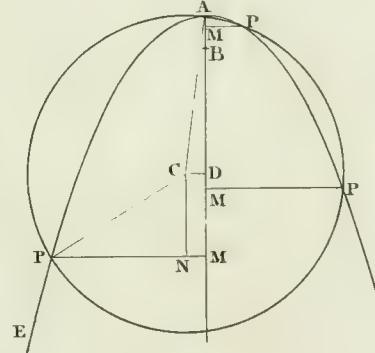
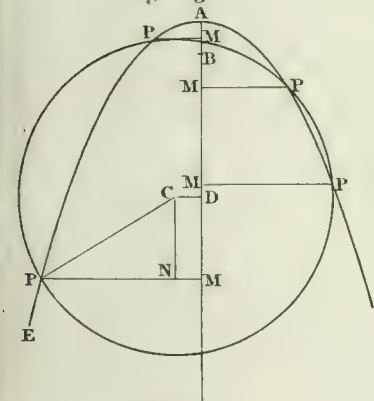


Fig. 15.

Fig. 16.

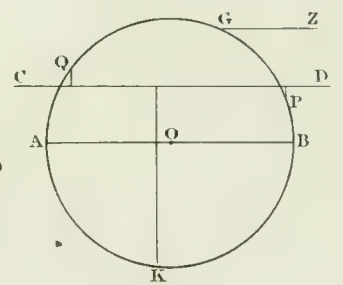
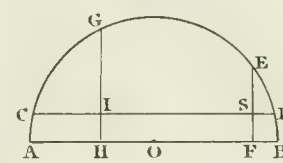
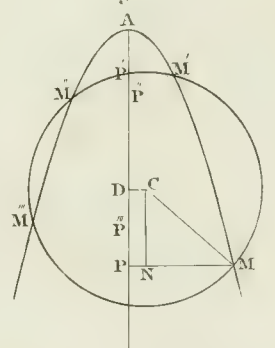
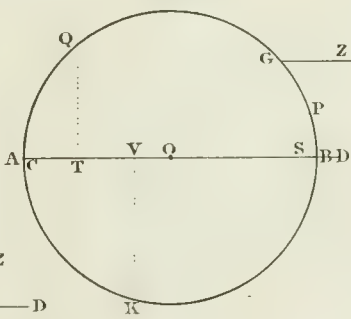
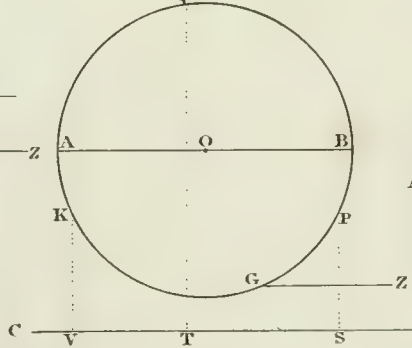
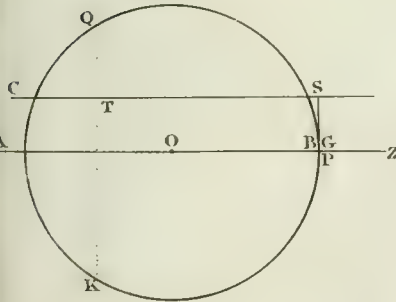


Fig. 17.

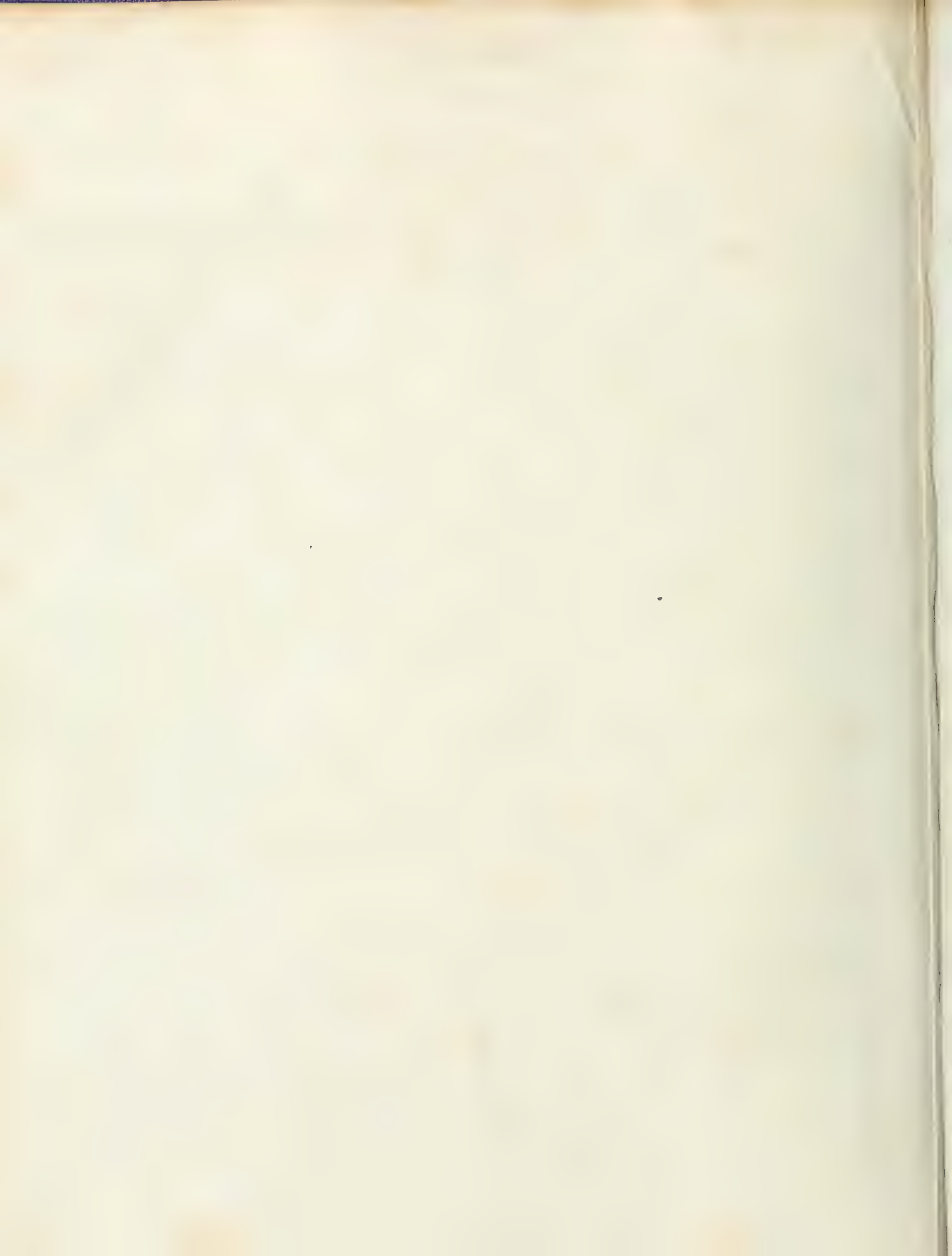
Fig. 18.

Fig. 19.

Fig. 20.







COTESLIAN Theorem.

Fig. 21.

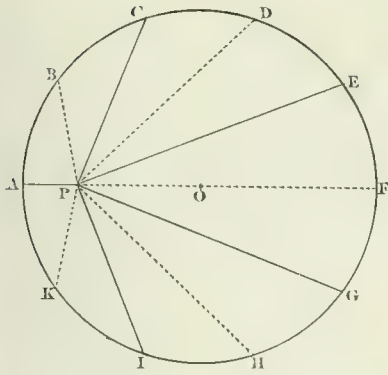
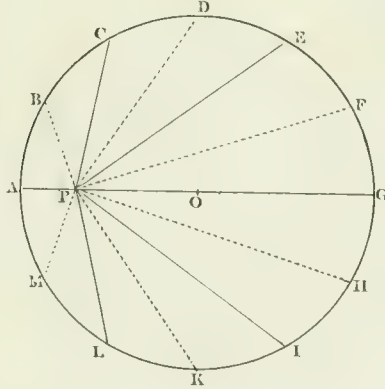
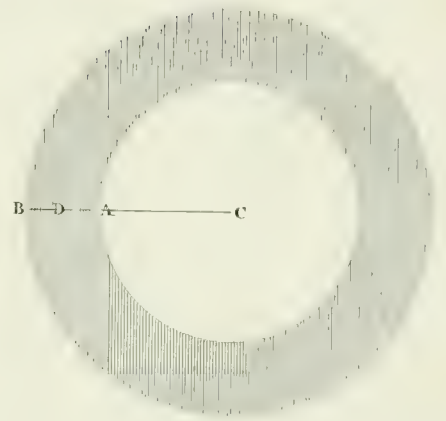


Fig. 22.



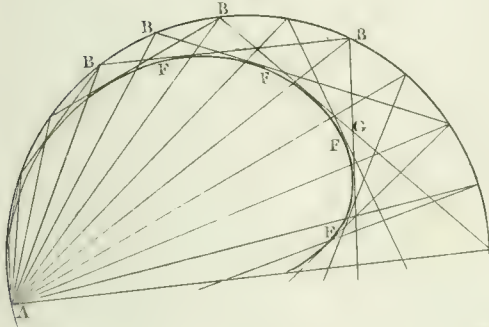
CROWN

Fig. 23.



CAUSTIC

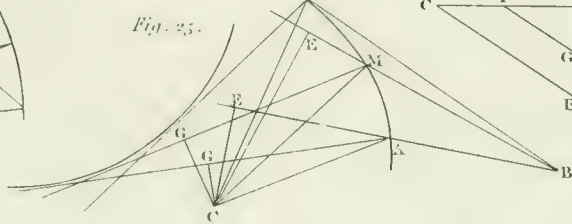
Fig. 24.



CURVE

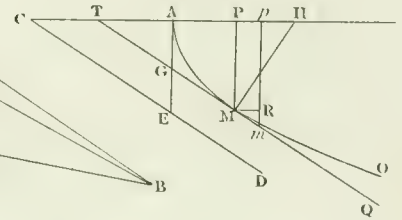
DIACAUSTIC

Fig. 25.



ELEMENT

Fig. 18.



CYLINDER.

See the Article referred to us in Geometry Plate IV.

Fig. 1.

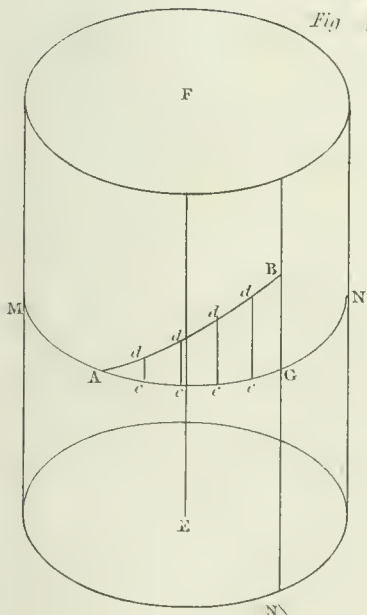
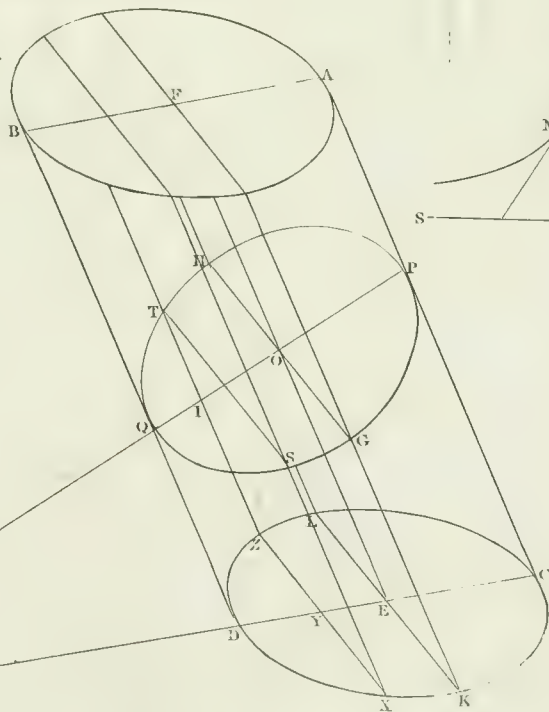
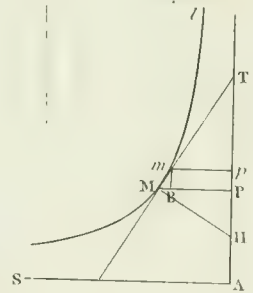


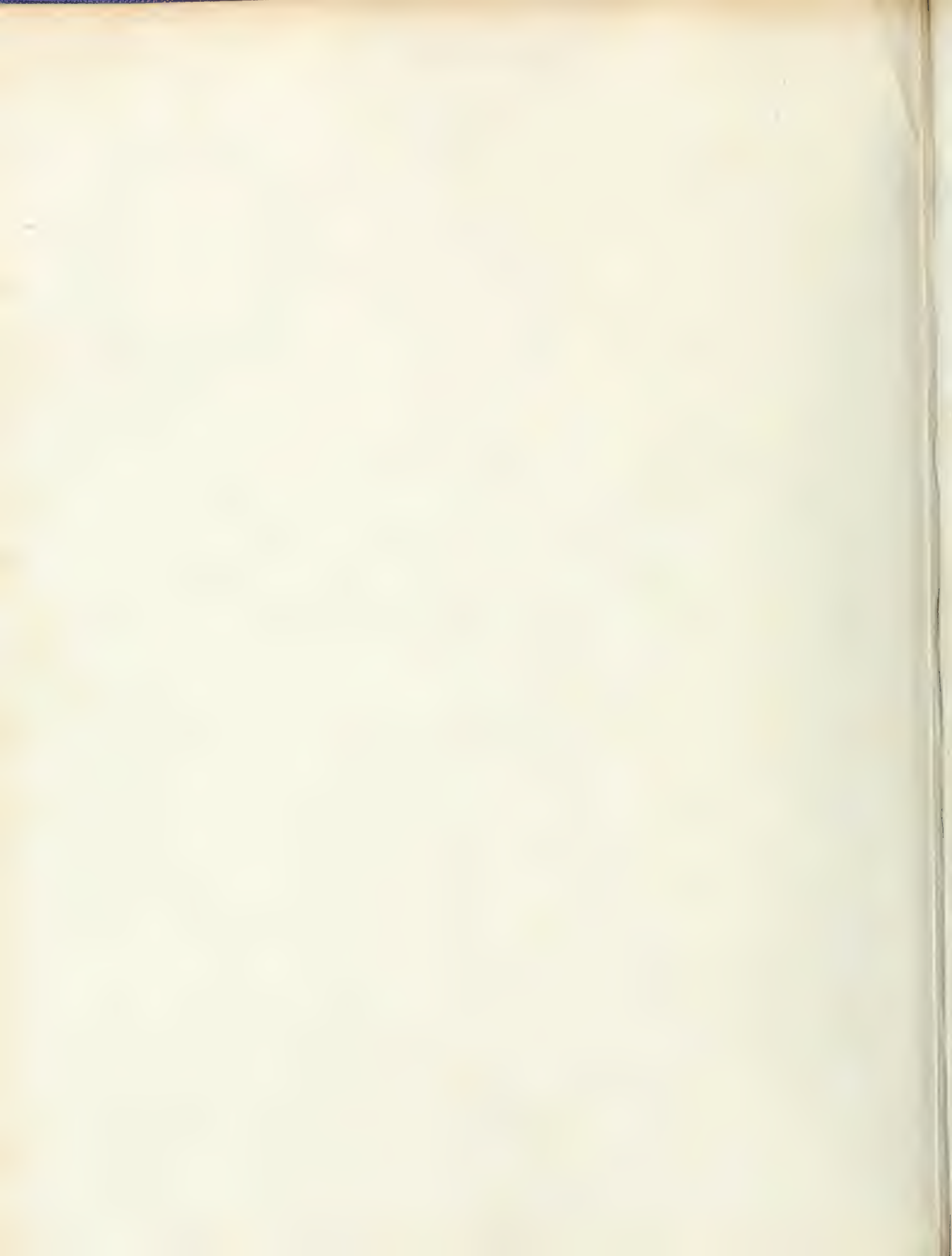
Fig. 3.



CURVE

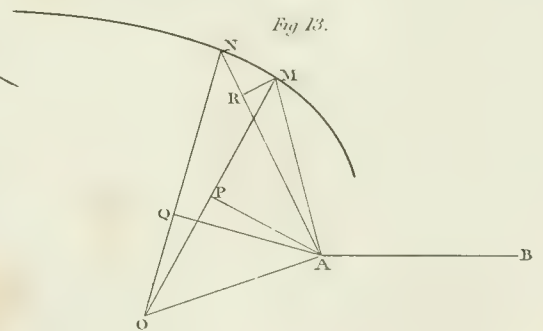
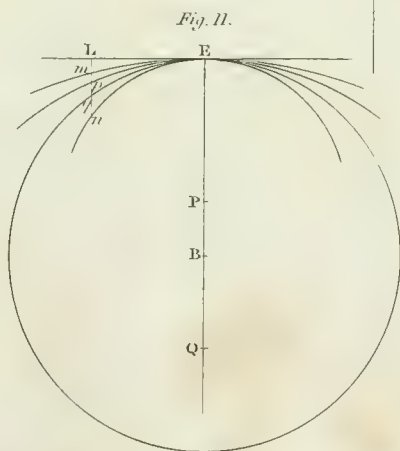
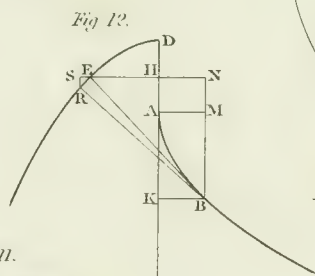
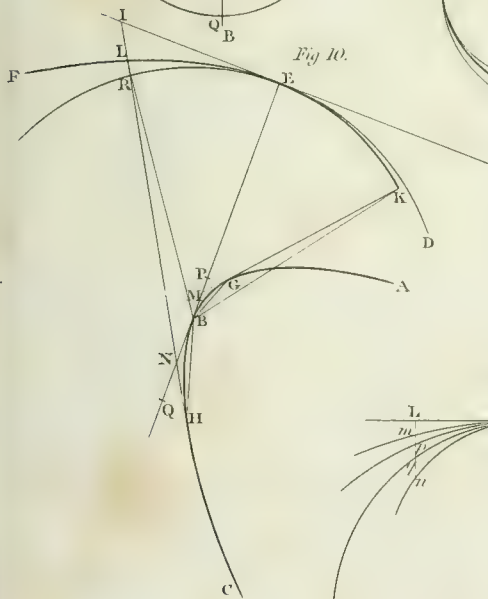
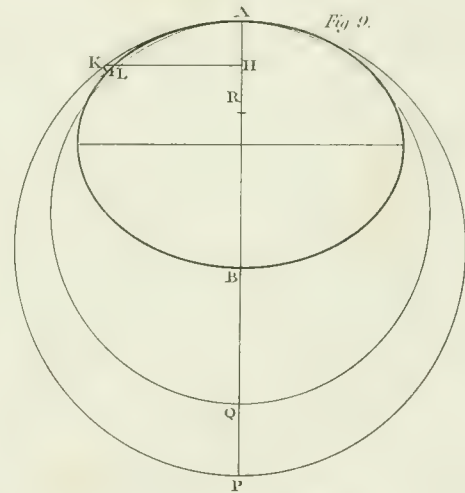
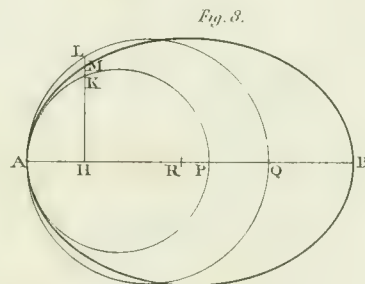
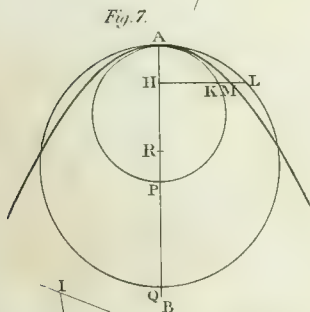
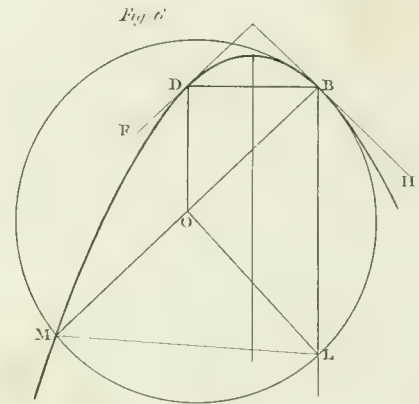
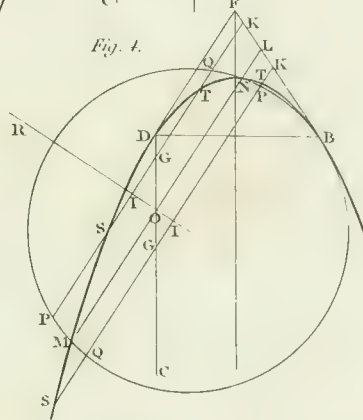
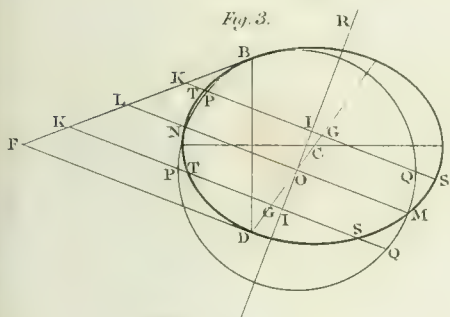
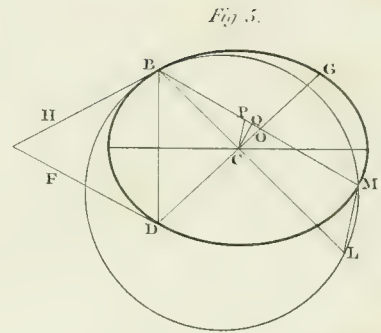
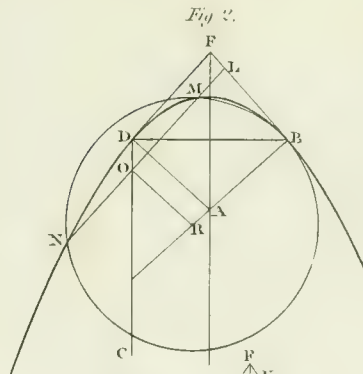
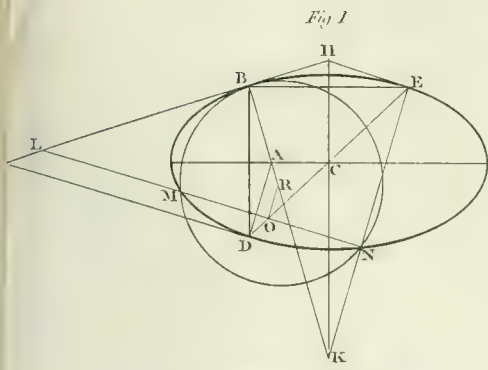
Fig. 26.



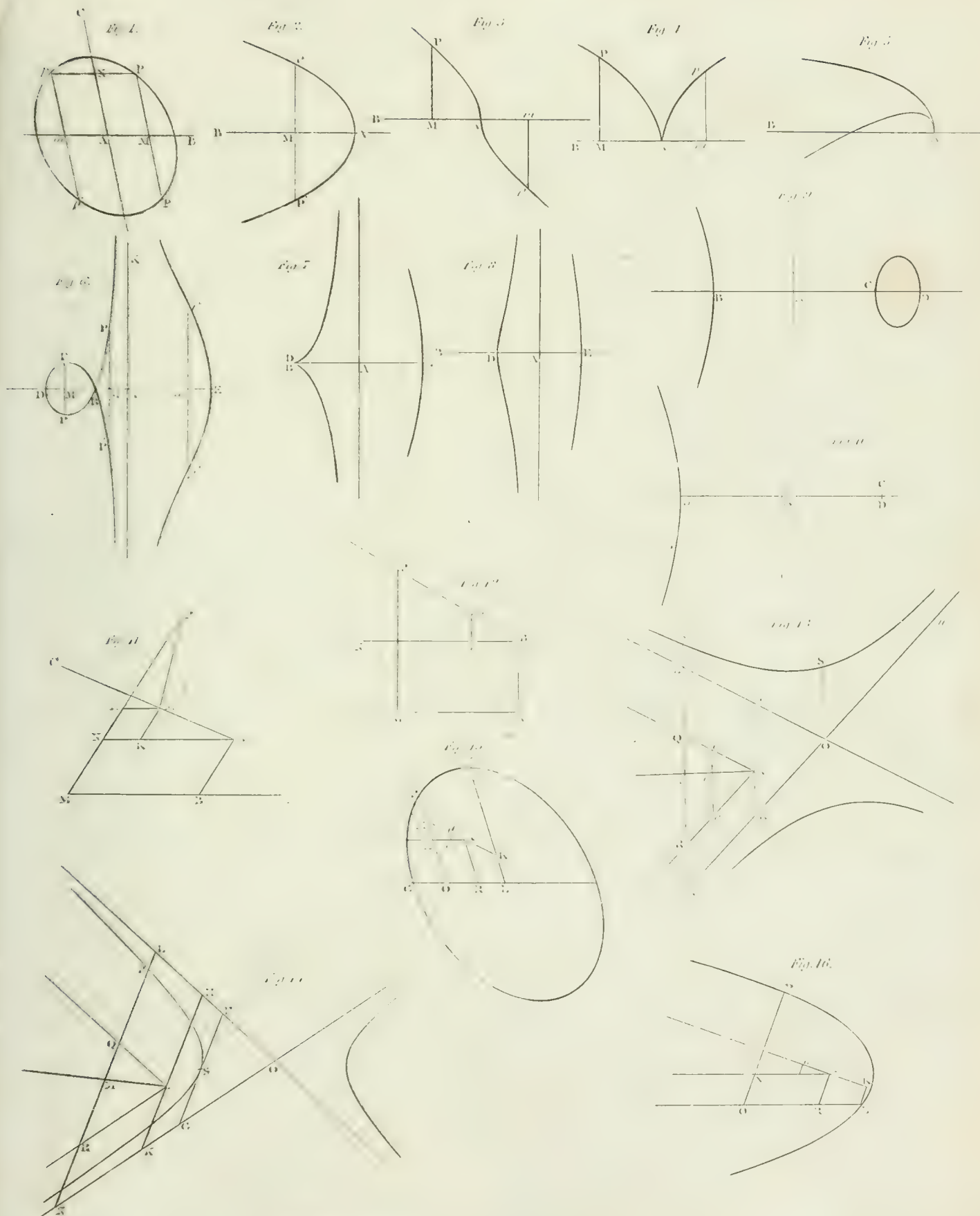




# ANALYSIS. CURVATURE.



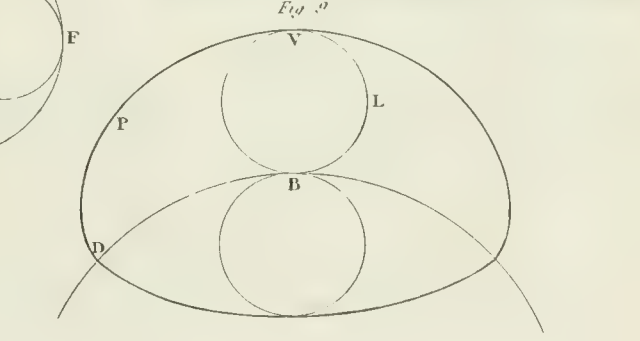
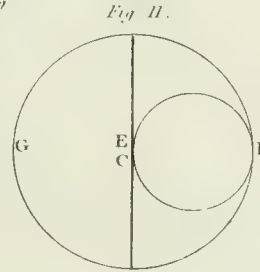
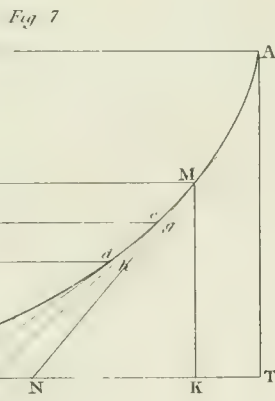
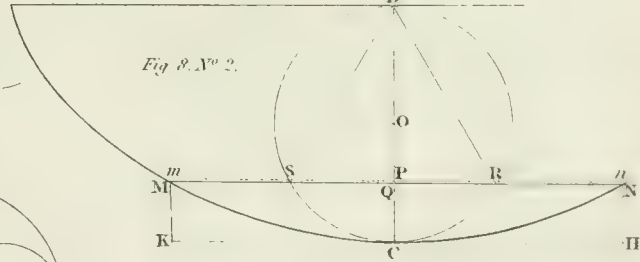
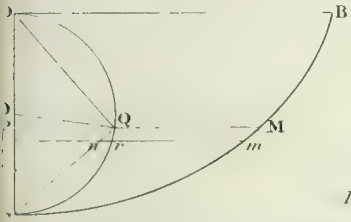
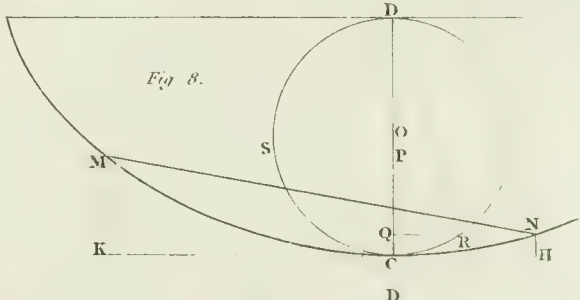
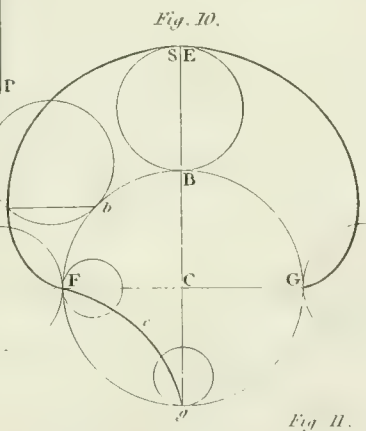
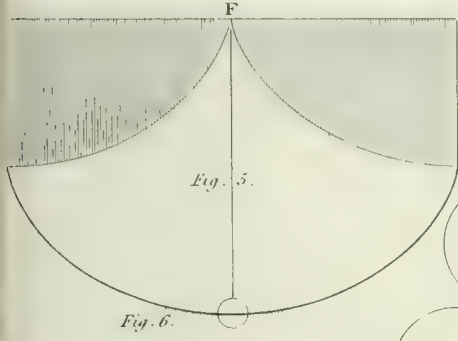
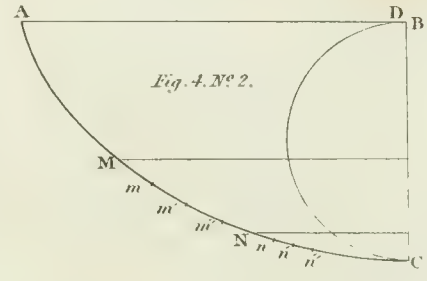
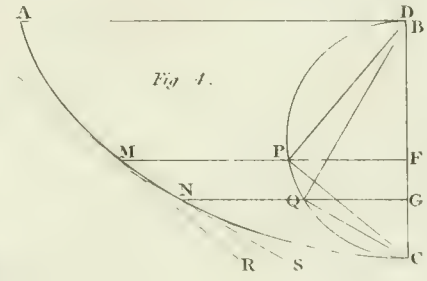
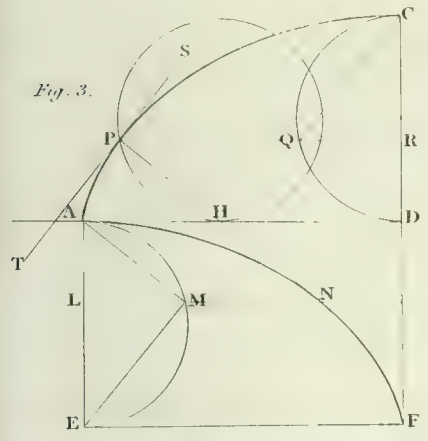
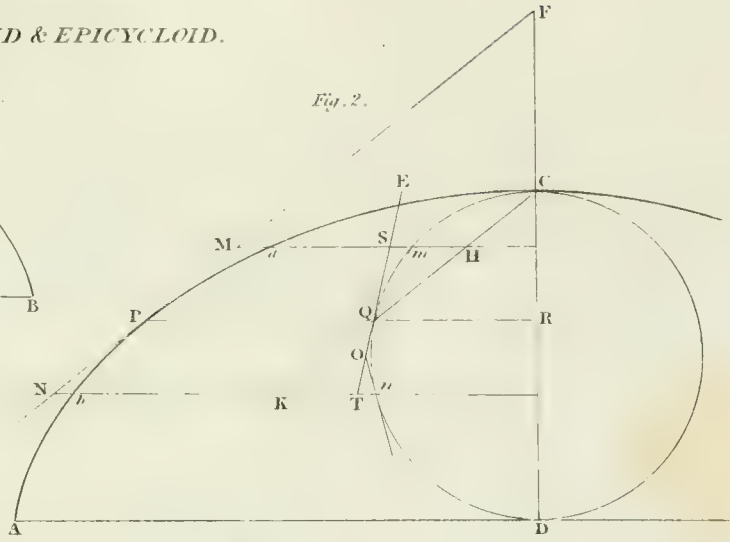
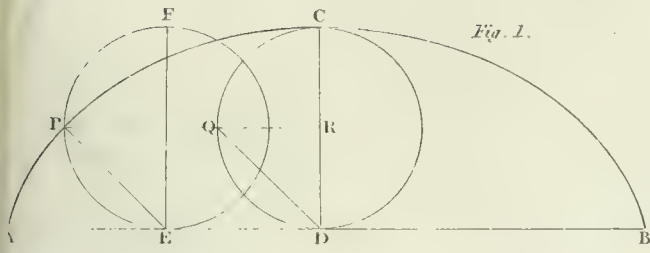


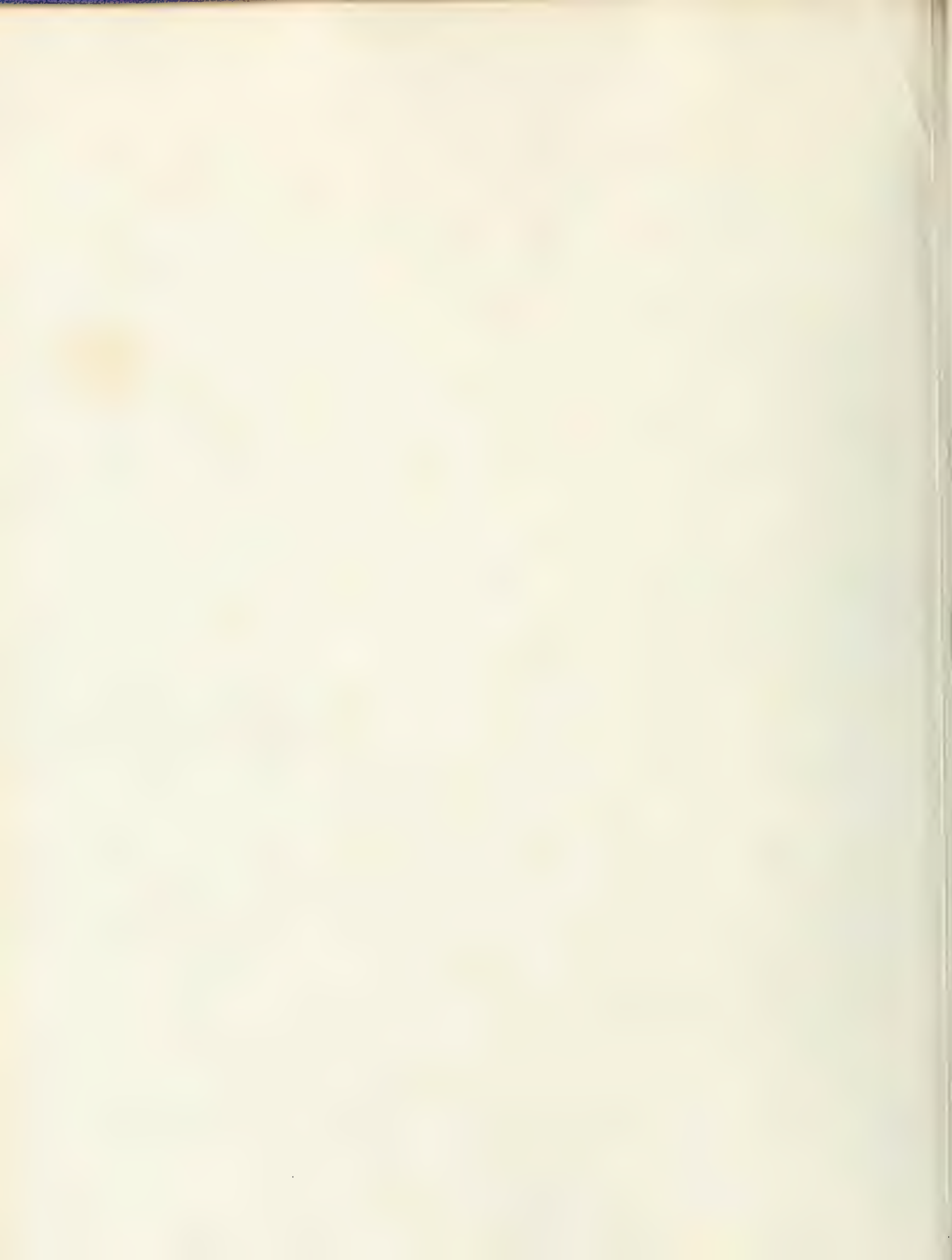






CYCLOID & EPICYCLOID.







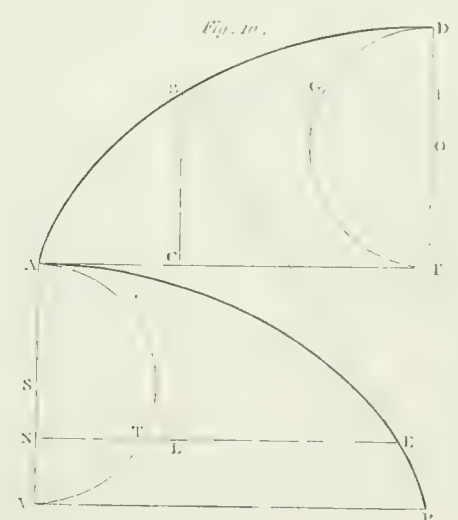
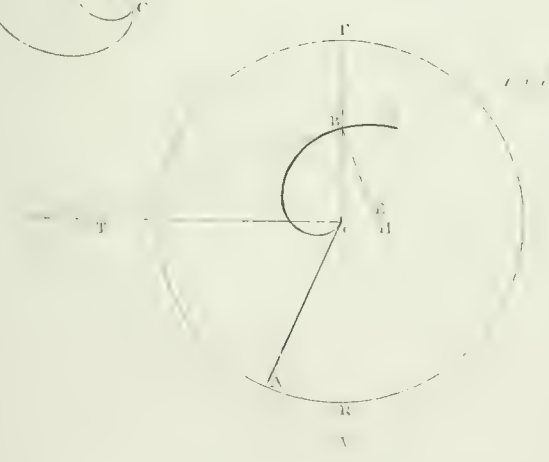
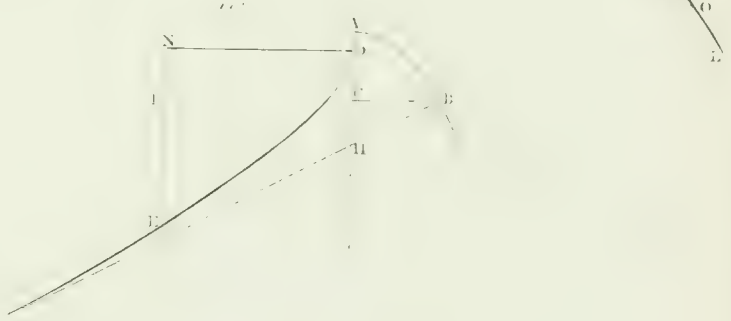
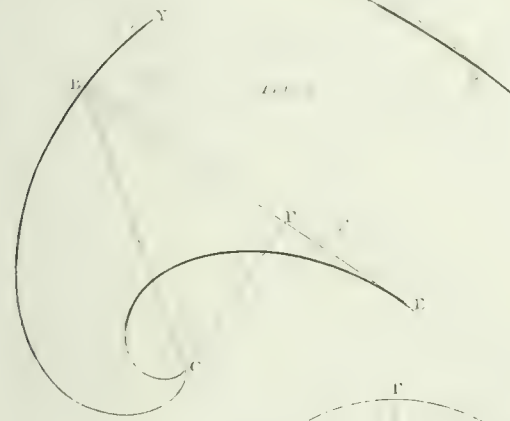
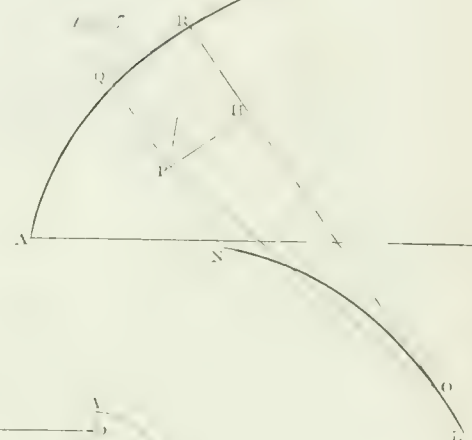
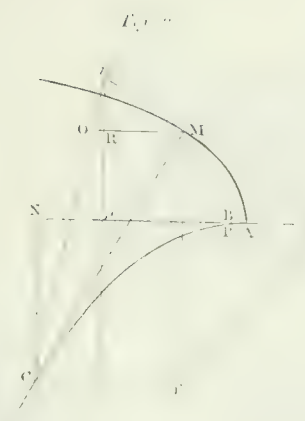
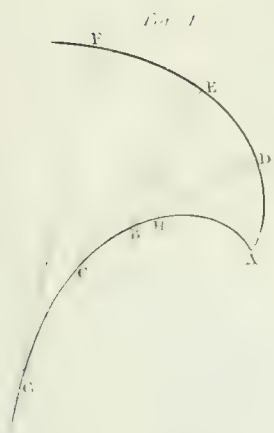




Fig. 1.



Fig. 2.

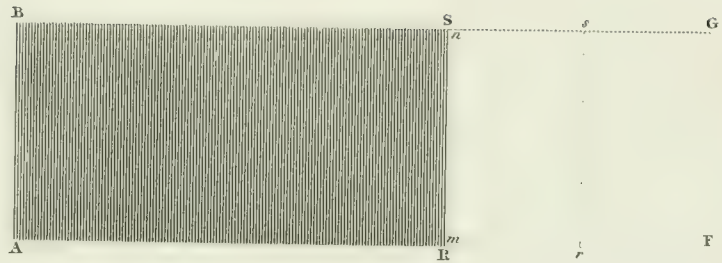


Fig. 3.

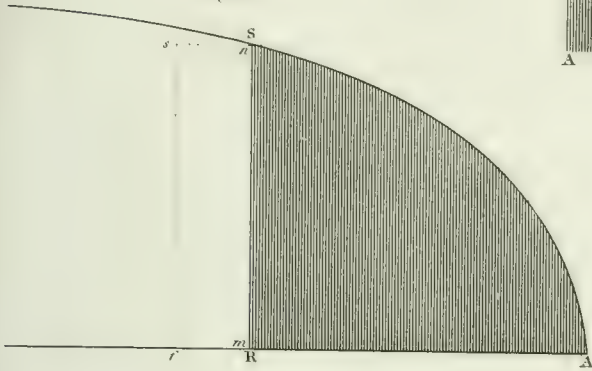
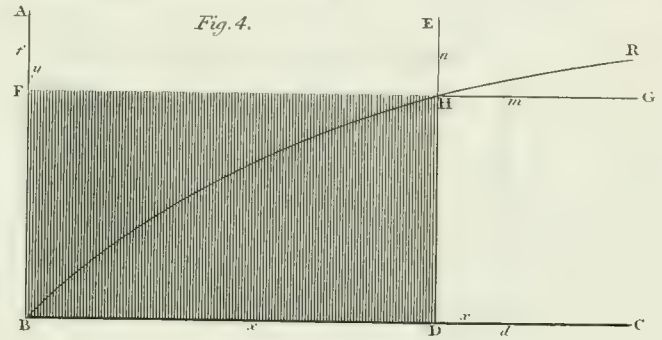


Fig. 4.



ANALYTIC FUNCTION.

Fig. 5.

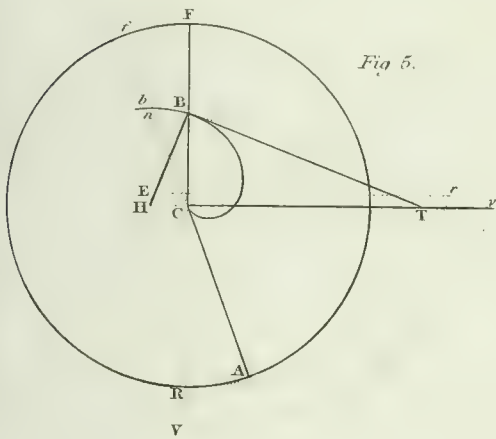


Fig. 6.

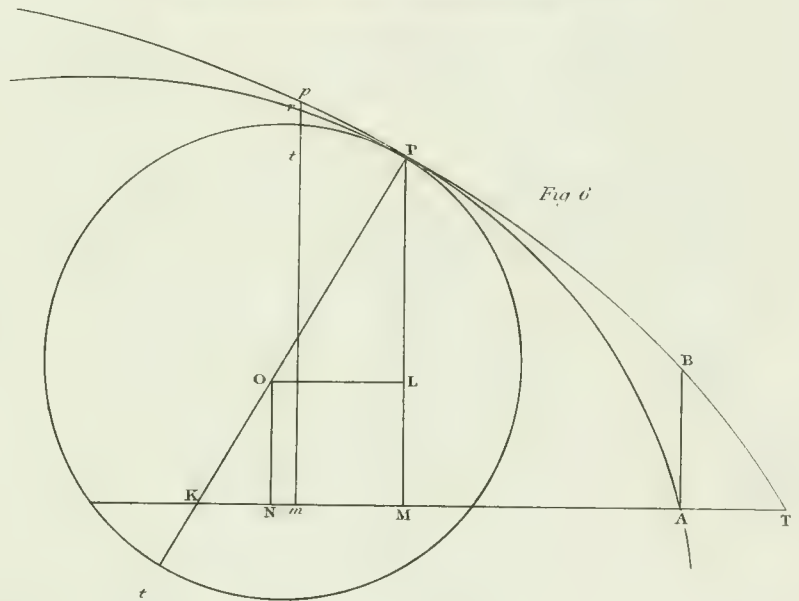


Fig. 7. N<sup>o</sup> 1.

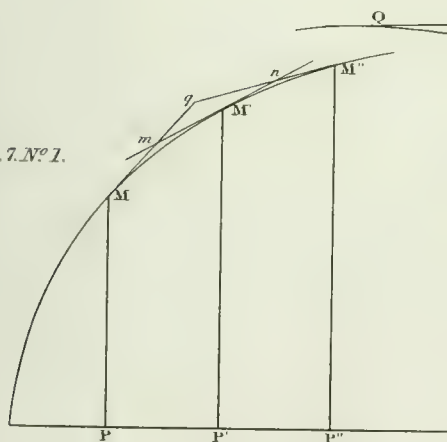


Fig. 7. N<sup>o</sup> 2.

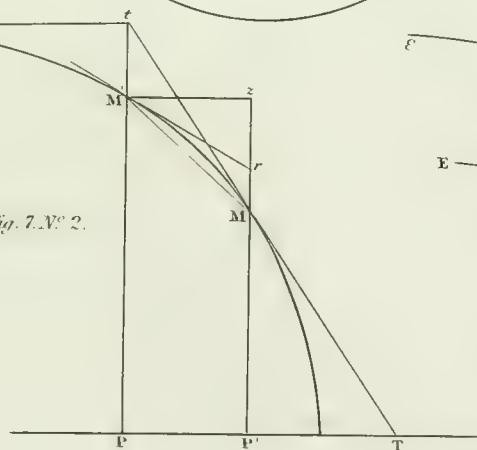
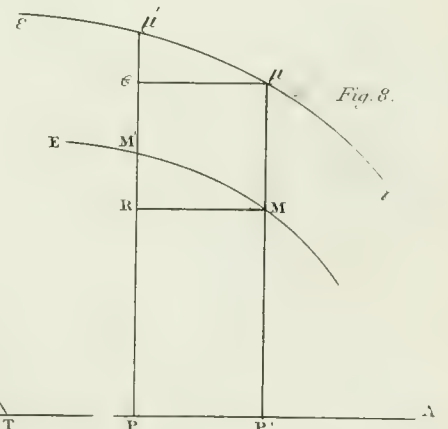
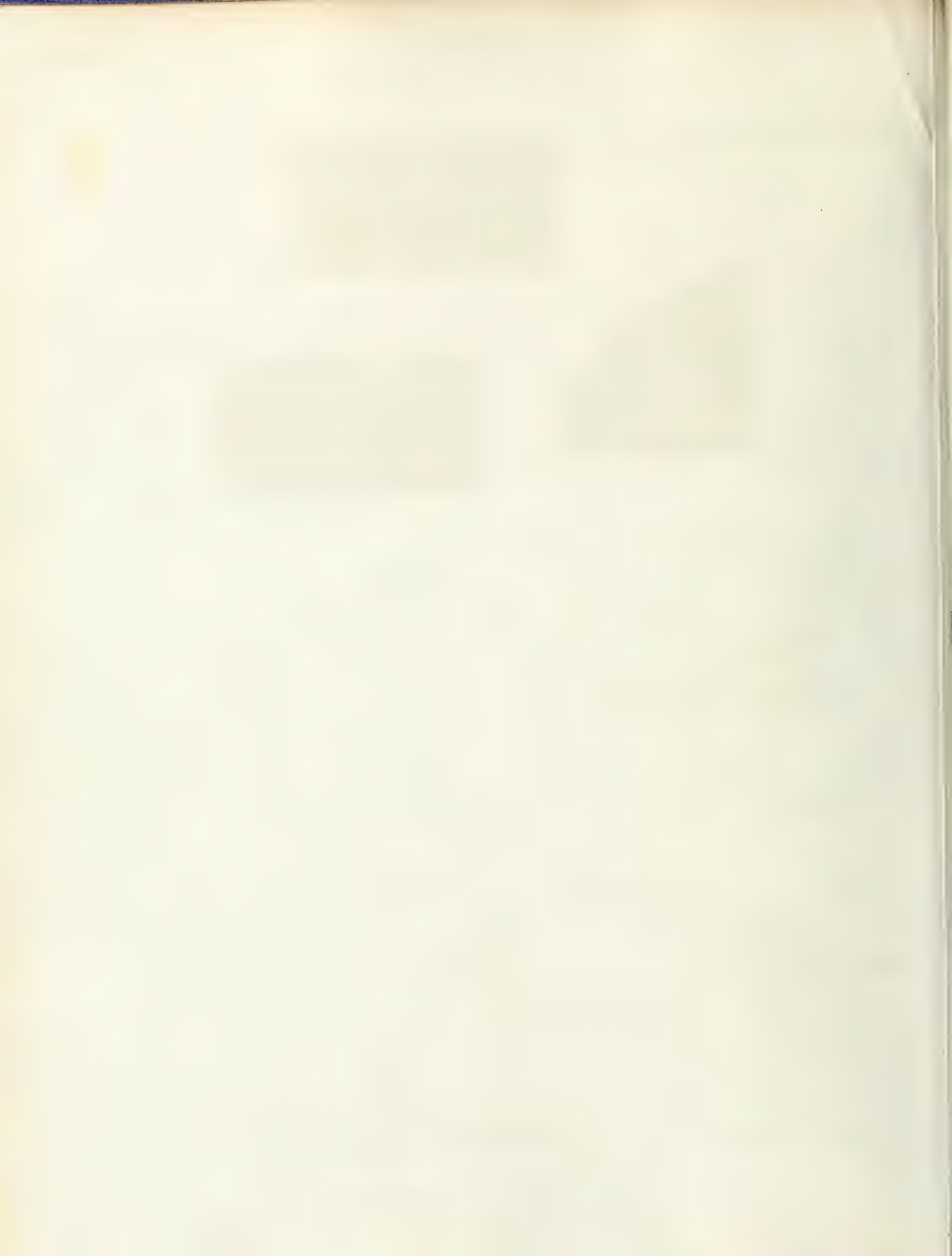


Fig. 8.







ANALYSIS,  
ANALYTIC GEOMETRY.

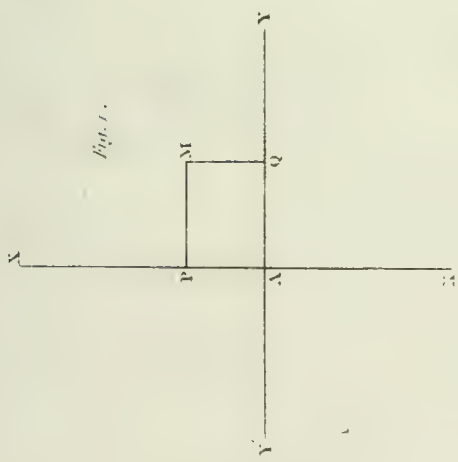


Fig. 1.

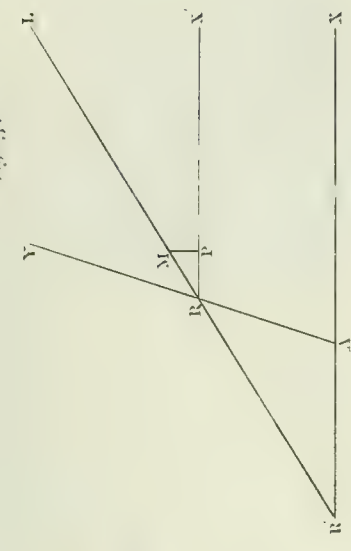


Fig. 3.

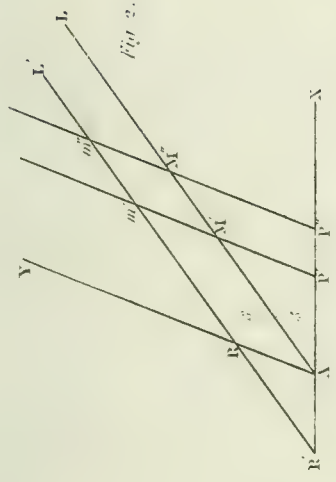


Fig. 2.

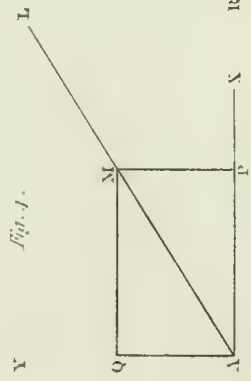


Fig. 4.

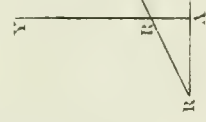


Fig. 5.

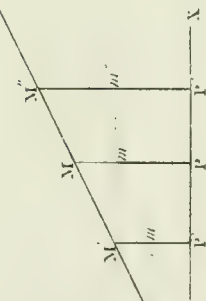


Fig. 6.

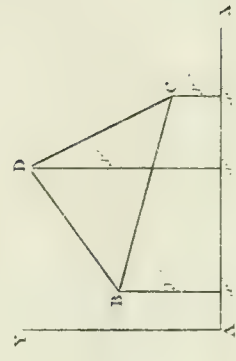


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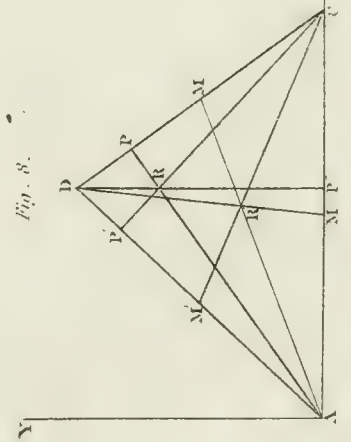


Fig. 8.

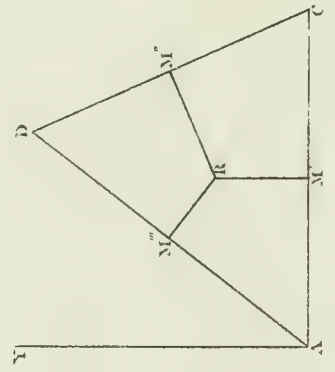


Fig. 9.

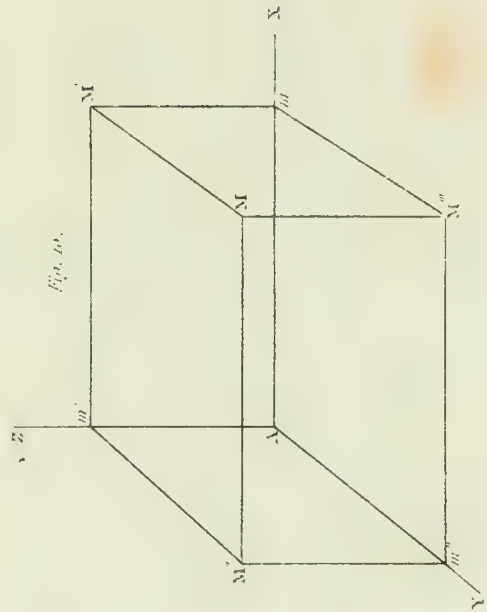
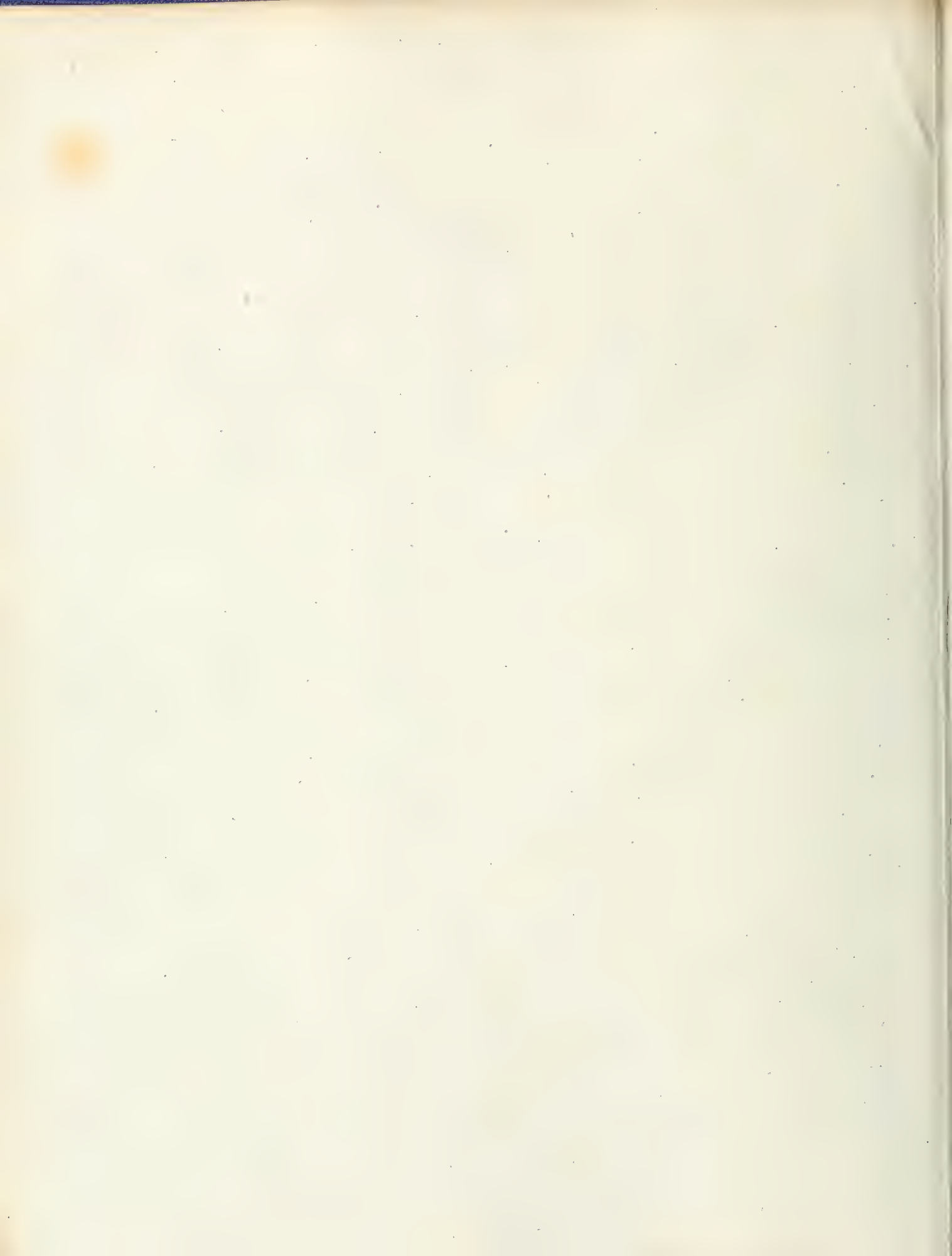


Fig. 10.



GYRATION.

Fig. 1.

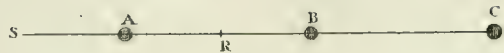


Fig. 4.

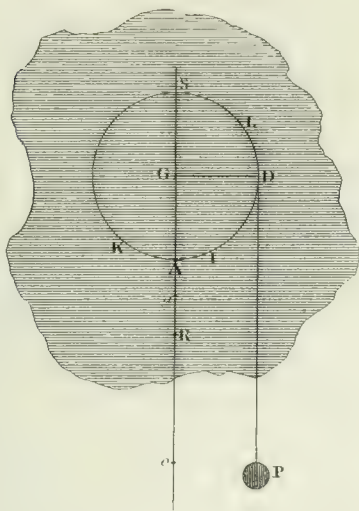


Fig. 2.

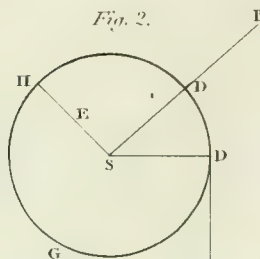


Fig. 3. N° 1.

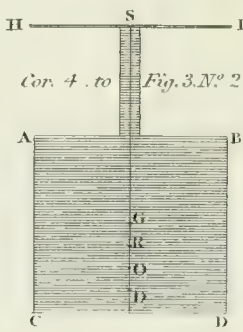
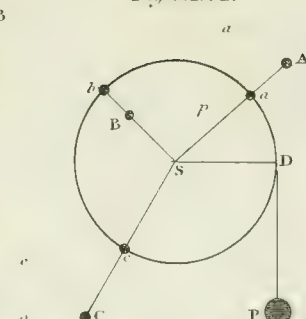


Fig. 3. N° 2.

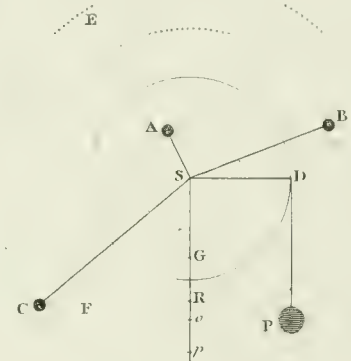
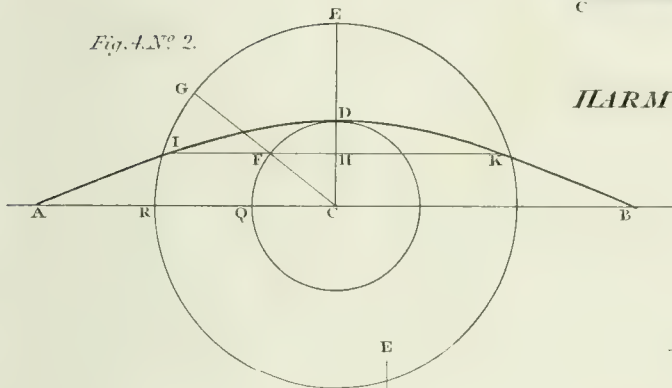


Fig. 4. N° 2.



HARMONIC CURVE.

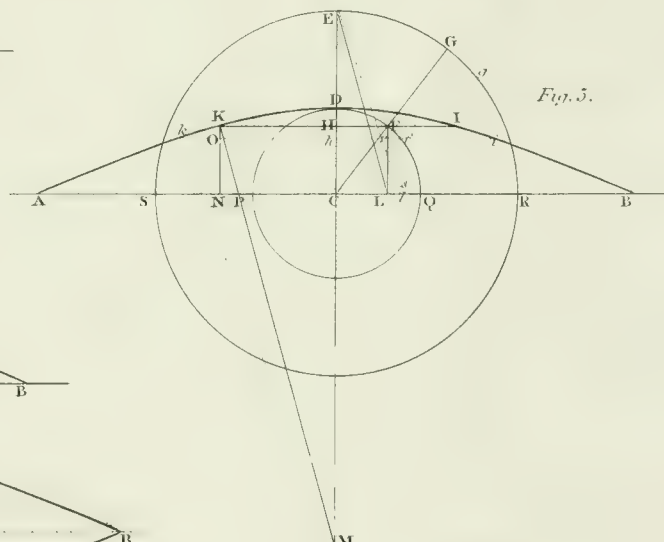


Fig. 6.

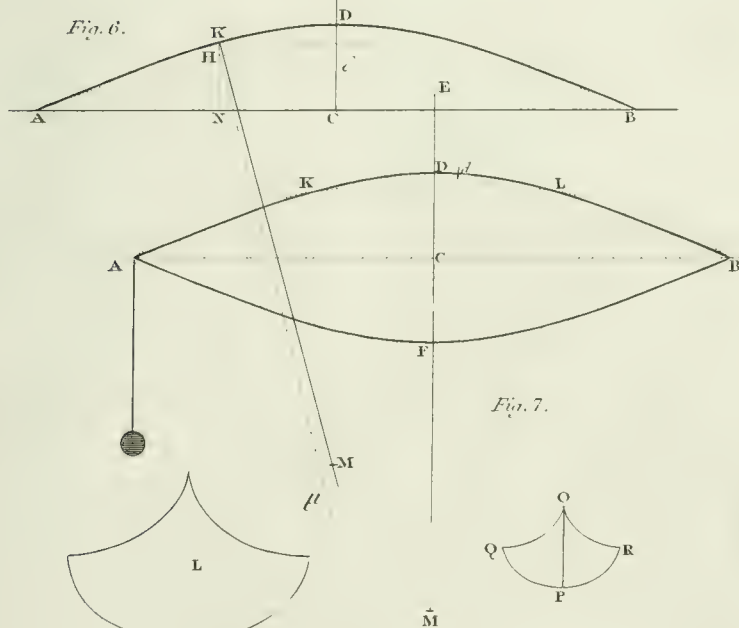


Fig. 7.

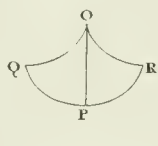
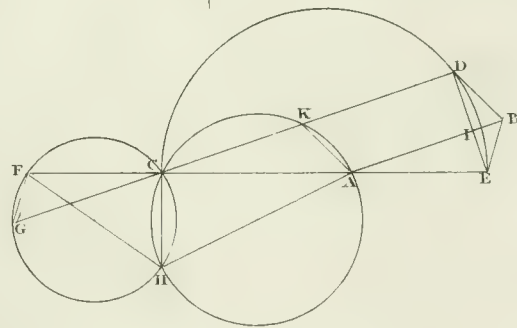
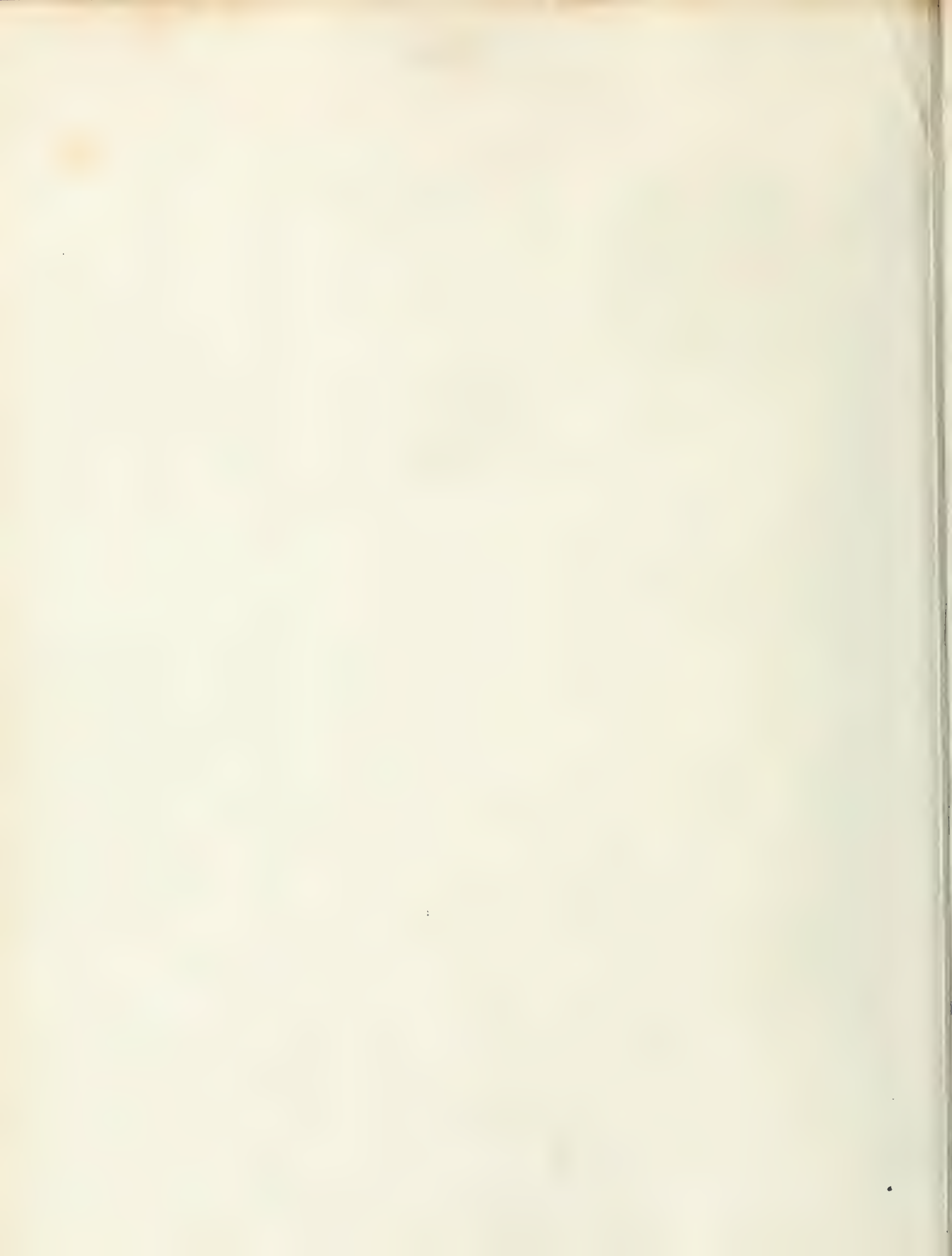


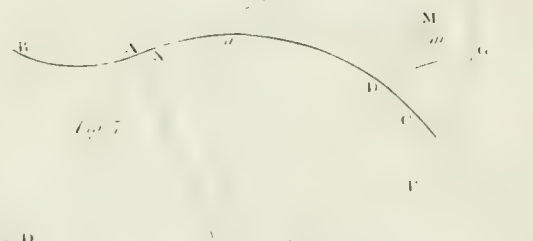
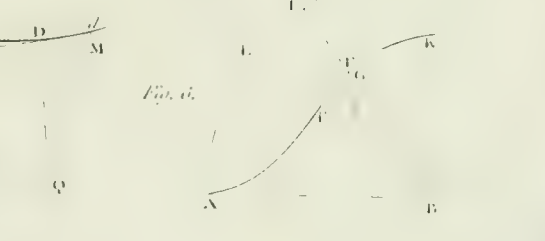
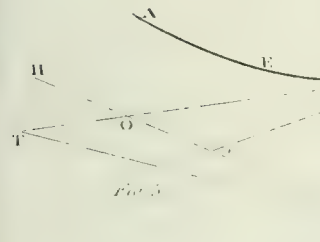
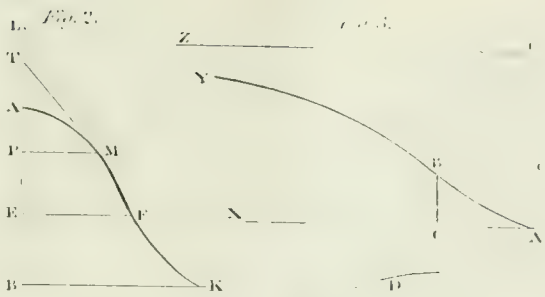
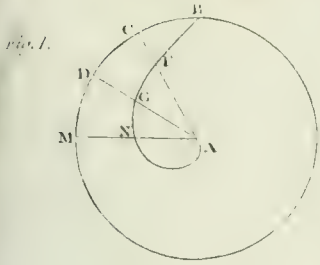
Fig. 8.



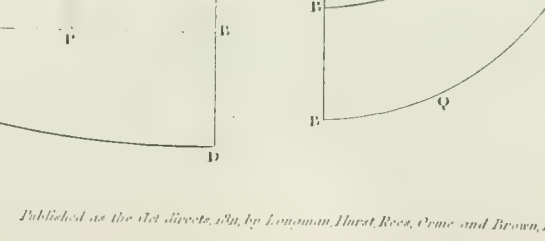
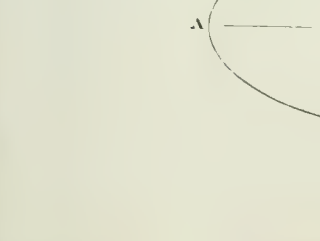
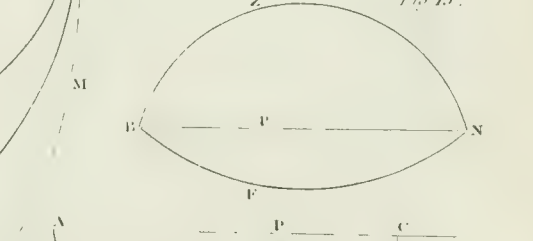
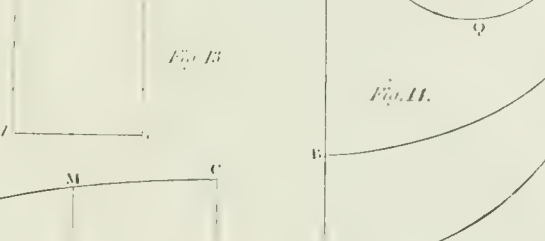
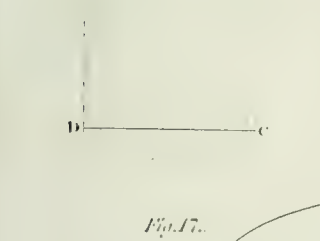
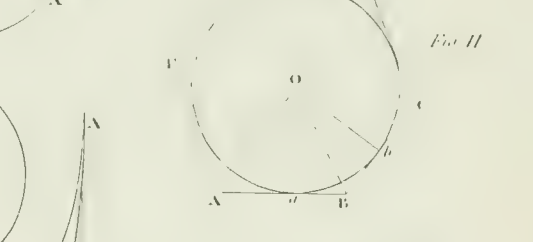
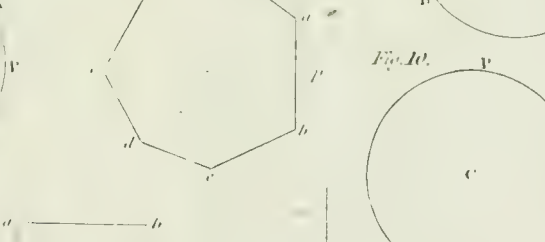
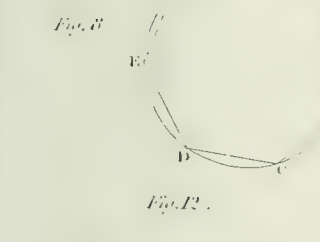
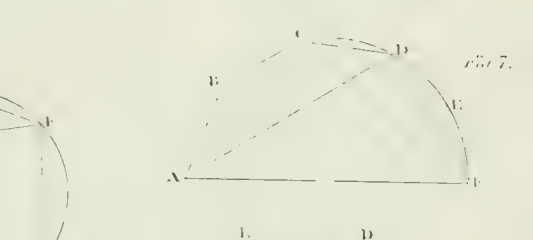
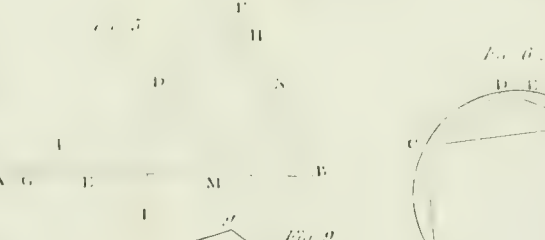
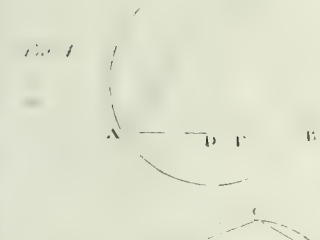
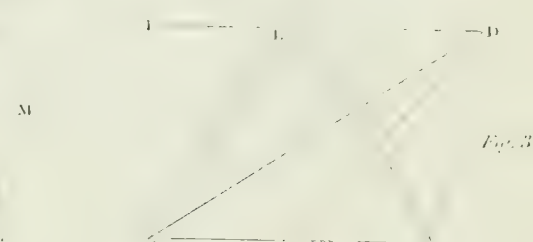
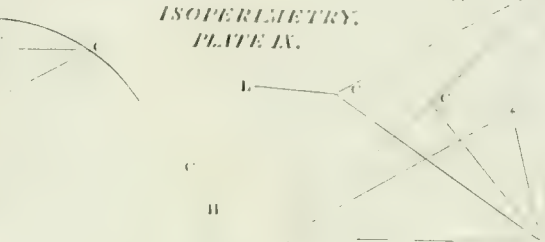
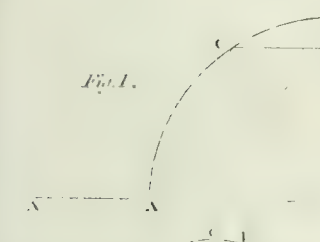


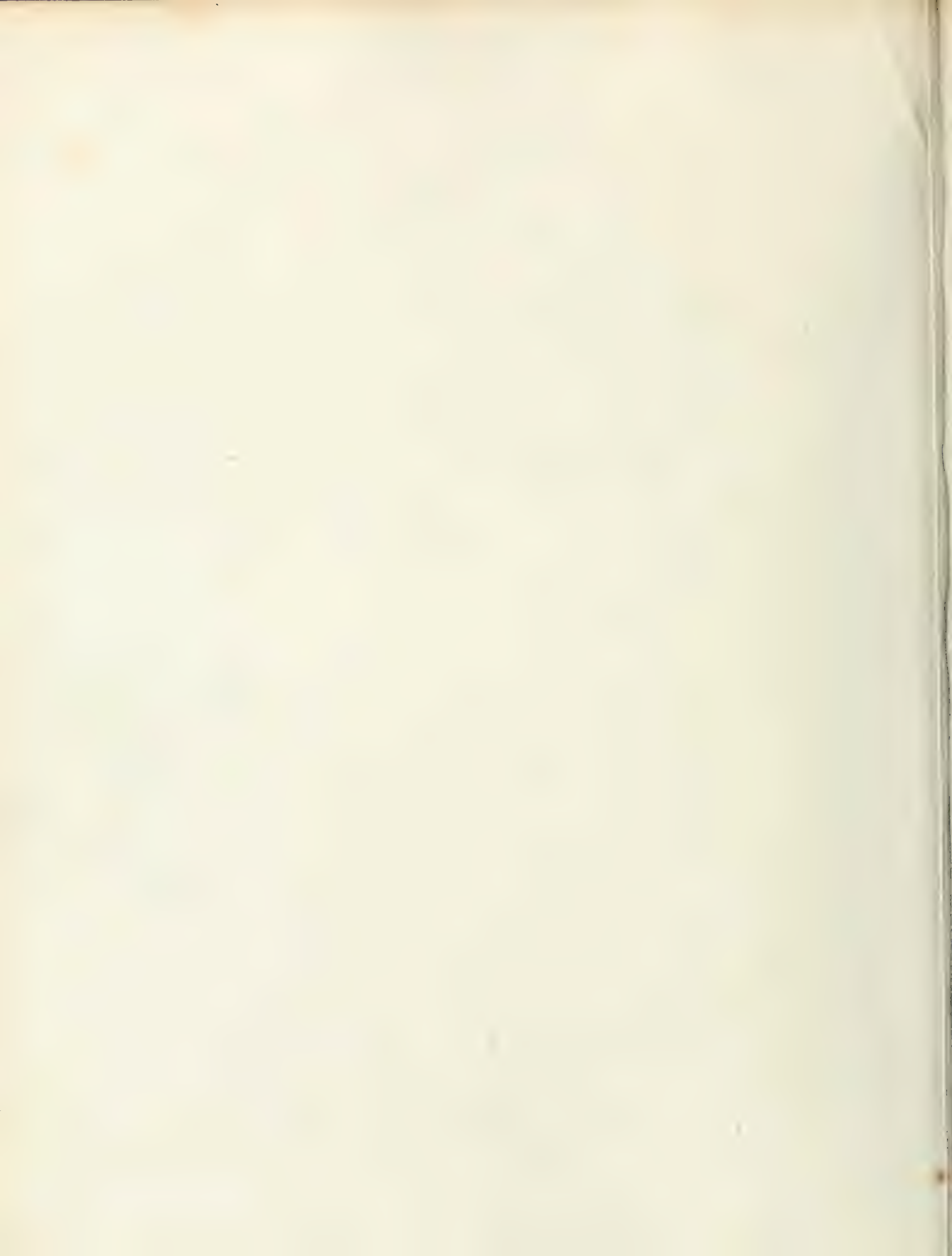


HELICOID.



ISOPERIMETRY.  
PLATE IX.





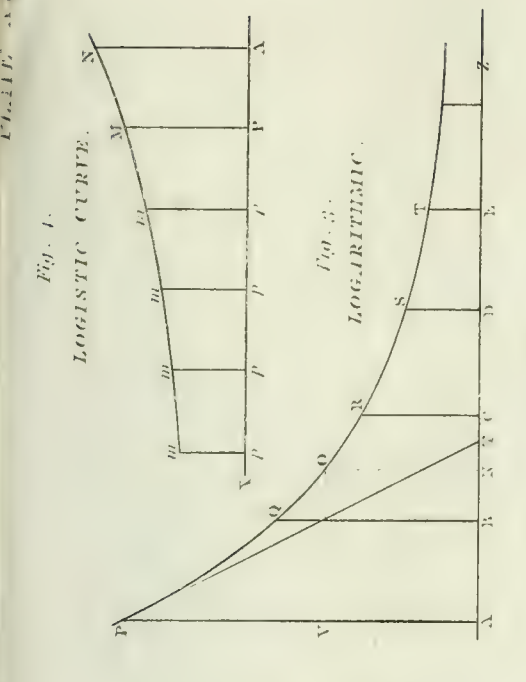
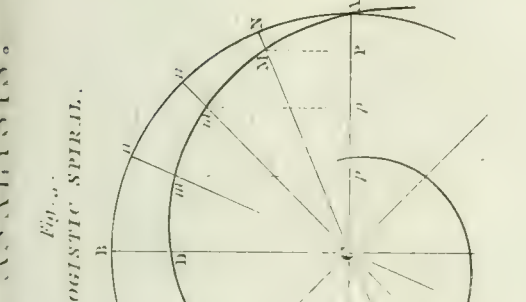
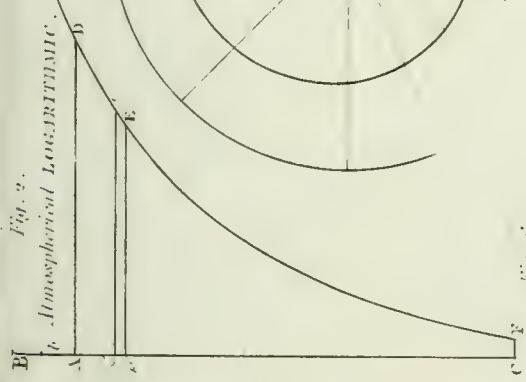
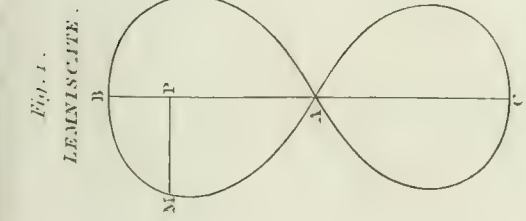


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

MAGIC Square of Squares.

200	217	232	249	8	25	40	57	74	89	104	121	136	153	168	184
58	39	26	7	250	234	268	309	356	407	464	527	596	671	752	839
198	219	230	231	6	27	38	50	79	94	109	123	134	155	166	187
60	37	28	5	272	299	320	347	388	433	484	541	604	673	748	829
201	216	233	248	9	24	41	56	72	88	105	122	137	152	166	181
55	12	23	40	247	264	285	302	328	379	434	495	562	635	714	802
203	214	235	246	11	22	33	44	55	66	77	86	107	118	139	151
53	14	21	42	245	266	283	304	324	349	379	414	454	499	549	606
205	212	237	244	13	20	35	42	57	64	74	84	100	111	128	143
51	16	19	41	243	268	281	306	327	353	383	418	458	503	553	608
207	210	239	242	15	18	27	36	47	50	59	62	71	82	93	105
49	18	17	46	241	260	268	277	286	295	304	313	322	331	340	349
196	221	228	263	4	29	36	64	63	93	100	125	132	157	164	189
62	35	30	3	234	227	222	195	190	163	158	134	126	99	94	67
194	223	226	255	2	31	34	63	66	95	98	127	130	159	162	191
64	33	32	1	236	225	224	193	192	164	160	129	128	97	96	65

MAGIC Circle of Circles.

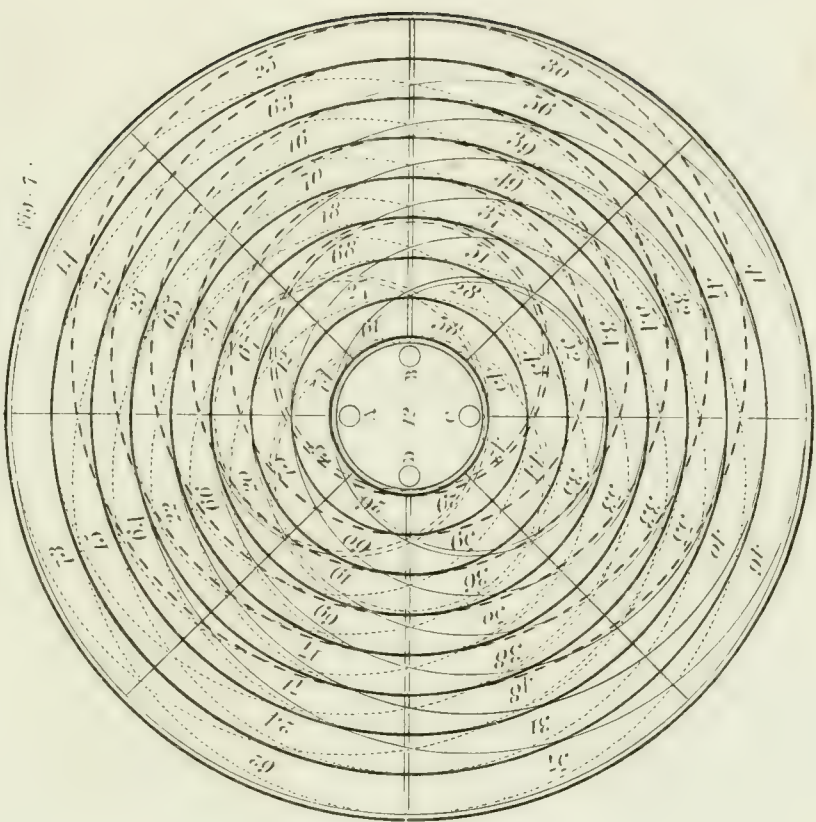
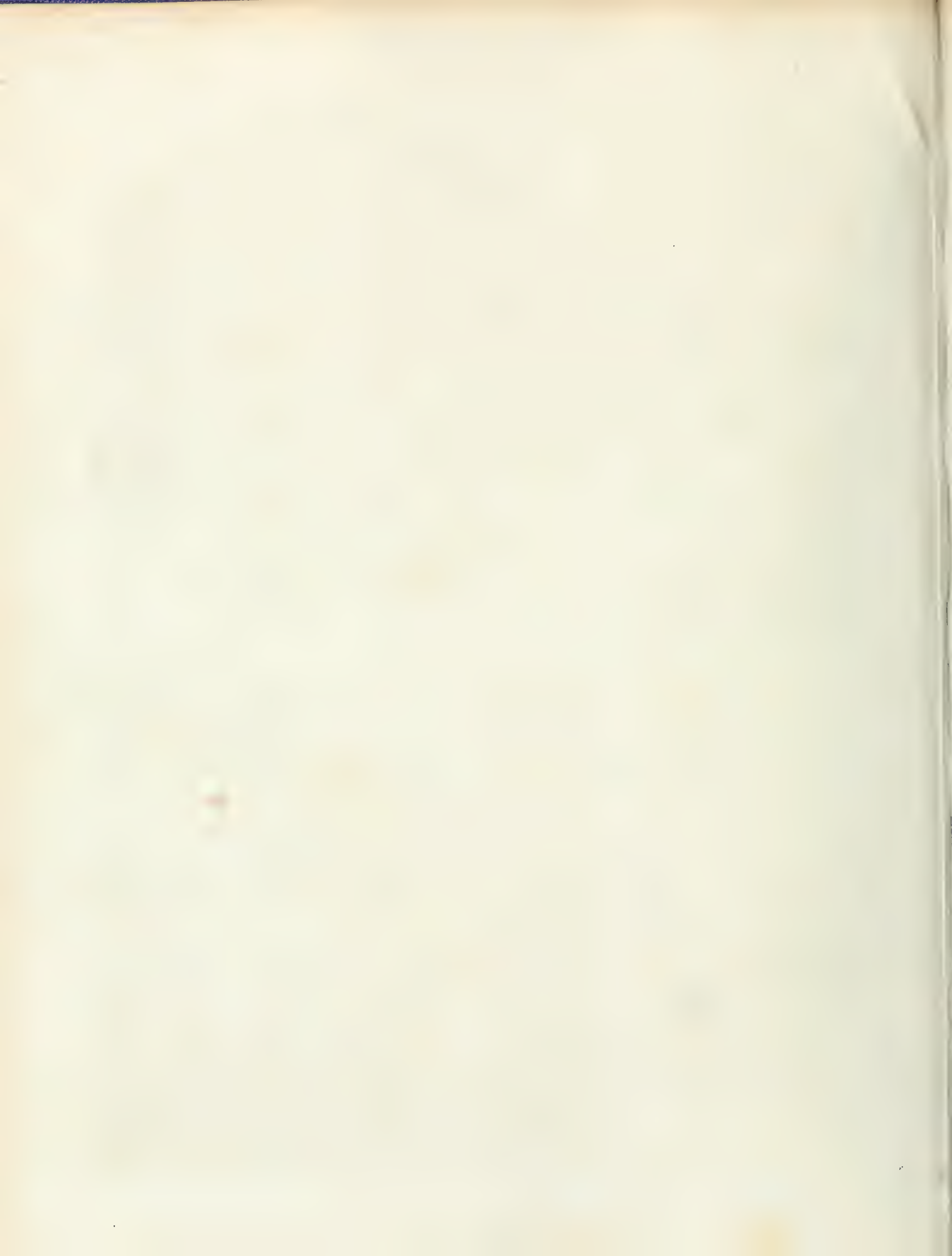
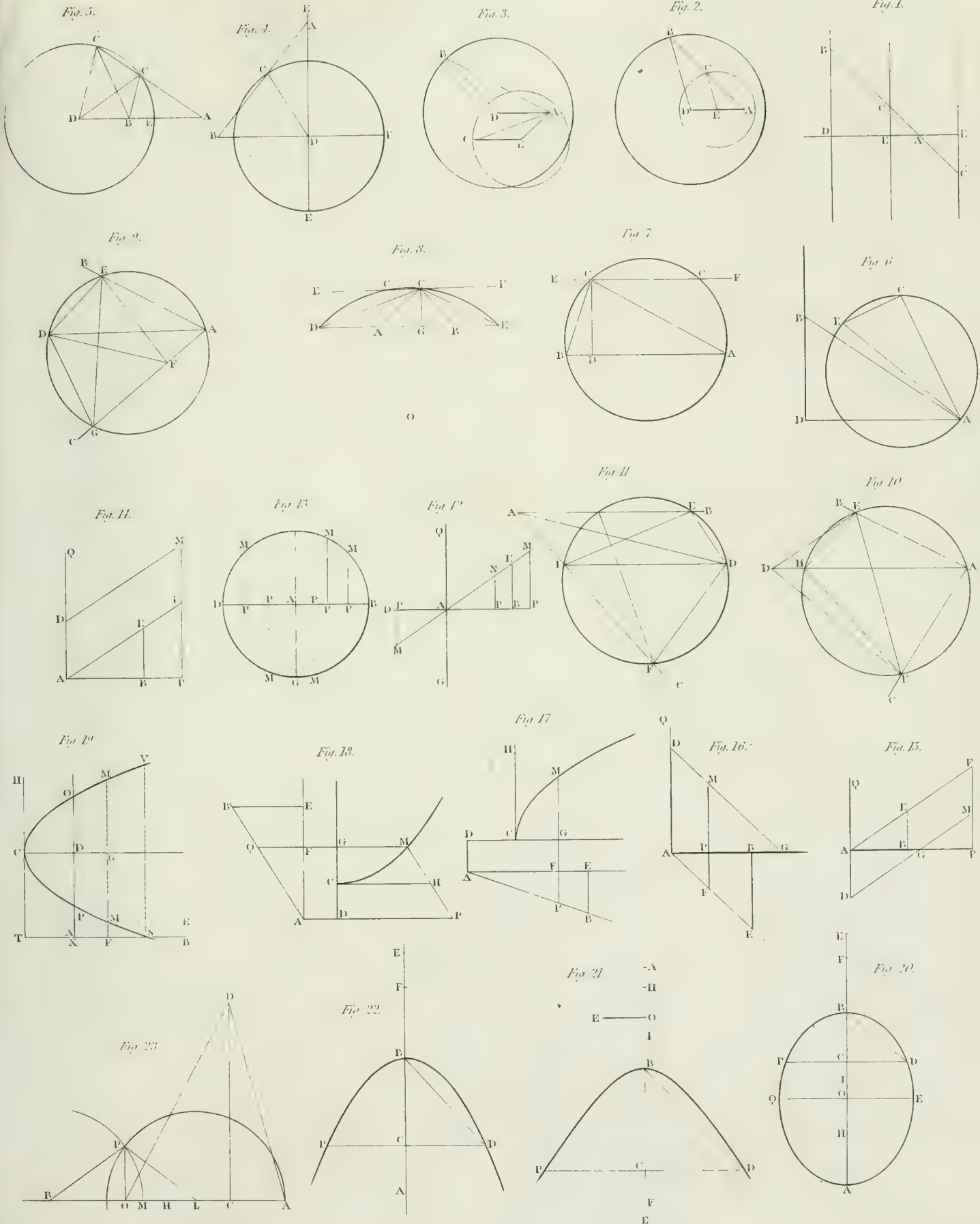


Fig. 7.







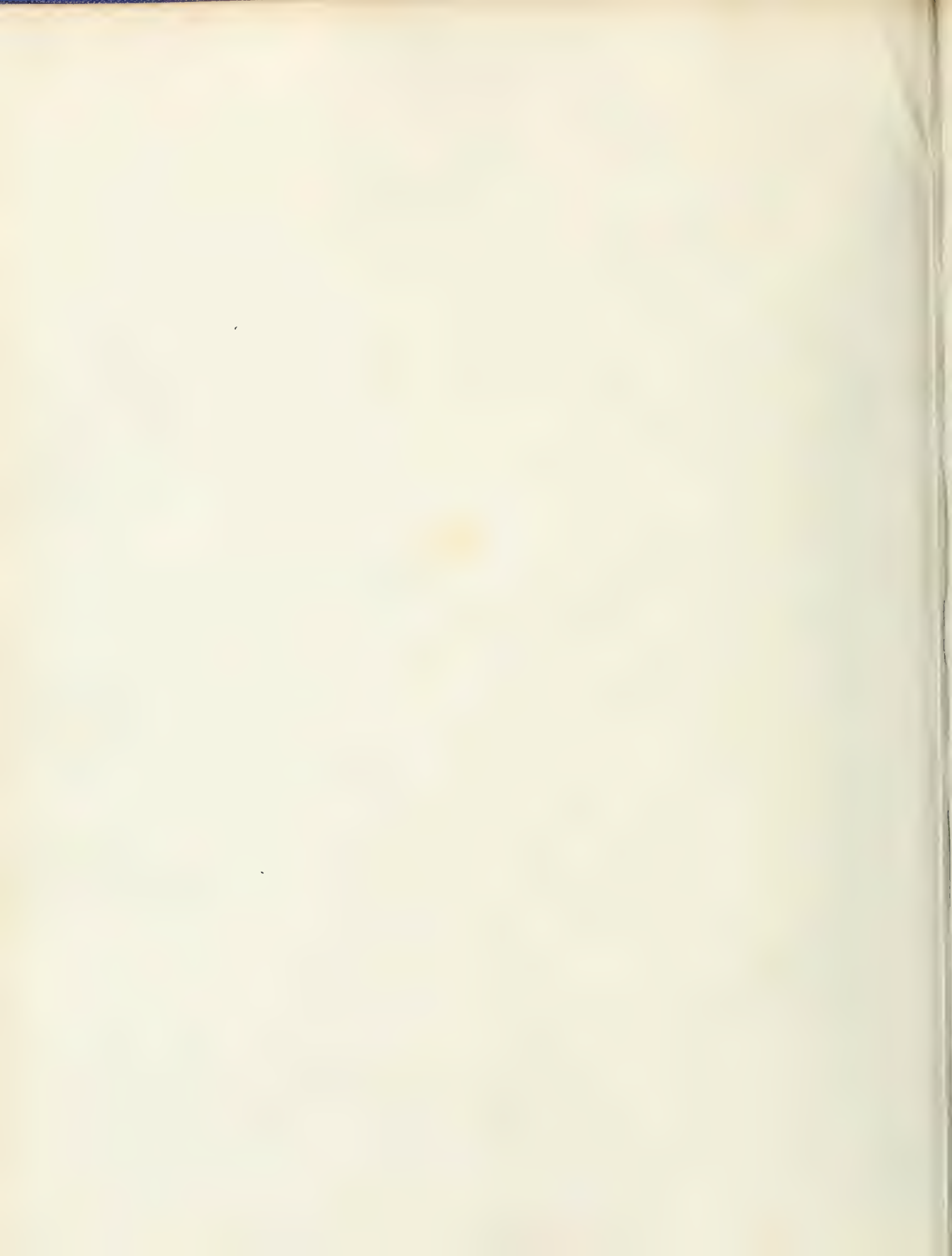


Fig. 1. MAXIMA and MINIMA.

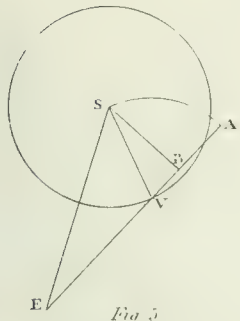
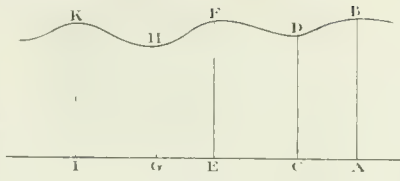


Fig. 2.



PARABOLIC Concus.

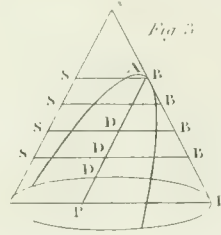
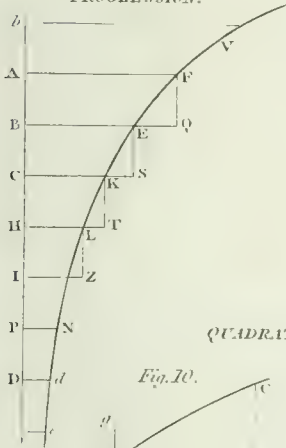


Fig. 4.

Analytic PARALLELOGRAM.

A	$x^1$	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	D
	$x^1$	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	
	$x^1$	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	
	$x^1$	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	
	$x^1$	$x^2 y$	$x^3 y^2$	$x^4 y^3$	$x^5 y^4$	
E	$y^1$	$y^2$	$y^3$	$y^4$	$y^5$	C

Fig. 5. PROGRESSION.



QUADRATIC Equation.

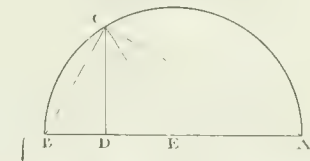


Fig. 6.

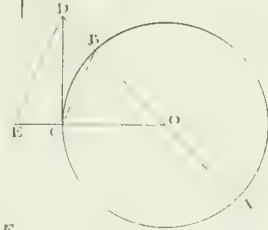
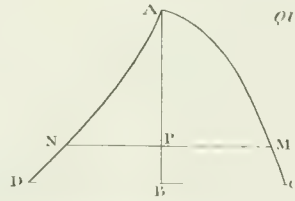
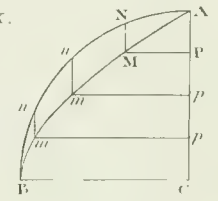


Fig. 7.



QUADRATRIX.

Fig. 9.



QUADRATURE.

Fig. 10.

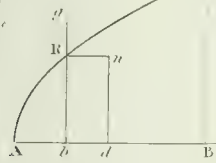


Fig. 11.

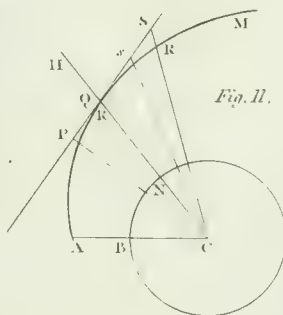


Fig. 8.

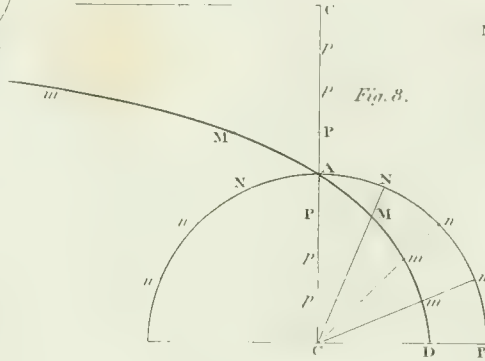


Fig. 12.

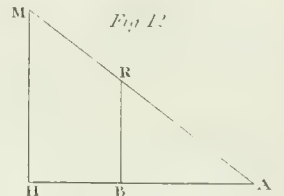


Fig. 13.

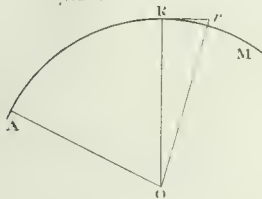


Fig. 14.

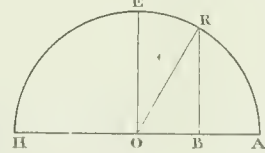


Fig. 15.

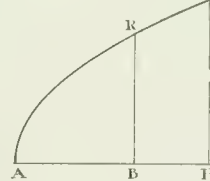


Fig. 16.

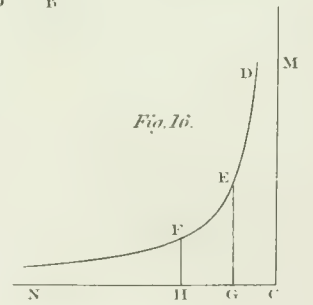


Fig. 18.

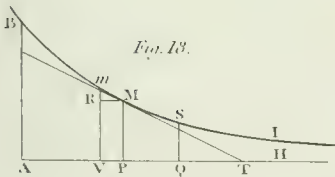


Fig. 19.

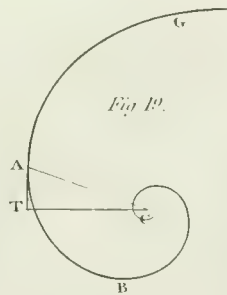


Fig. 17.

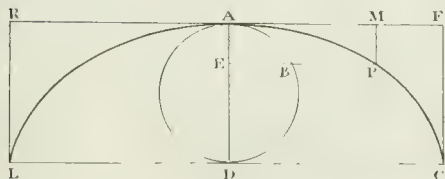
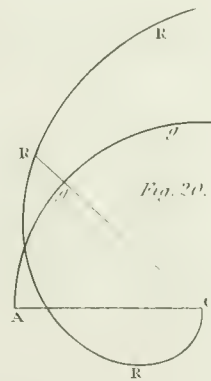
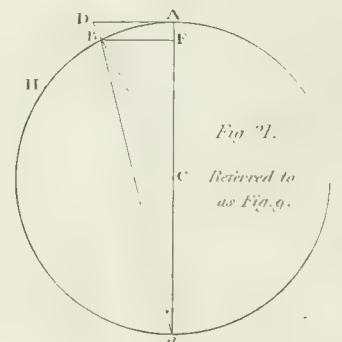


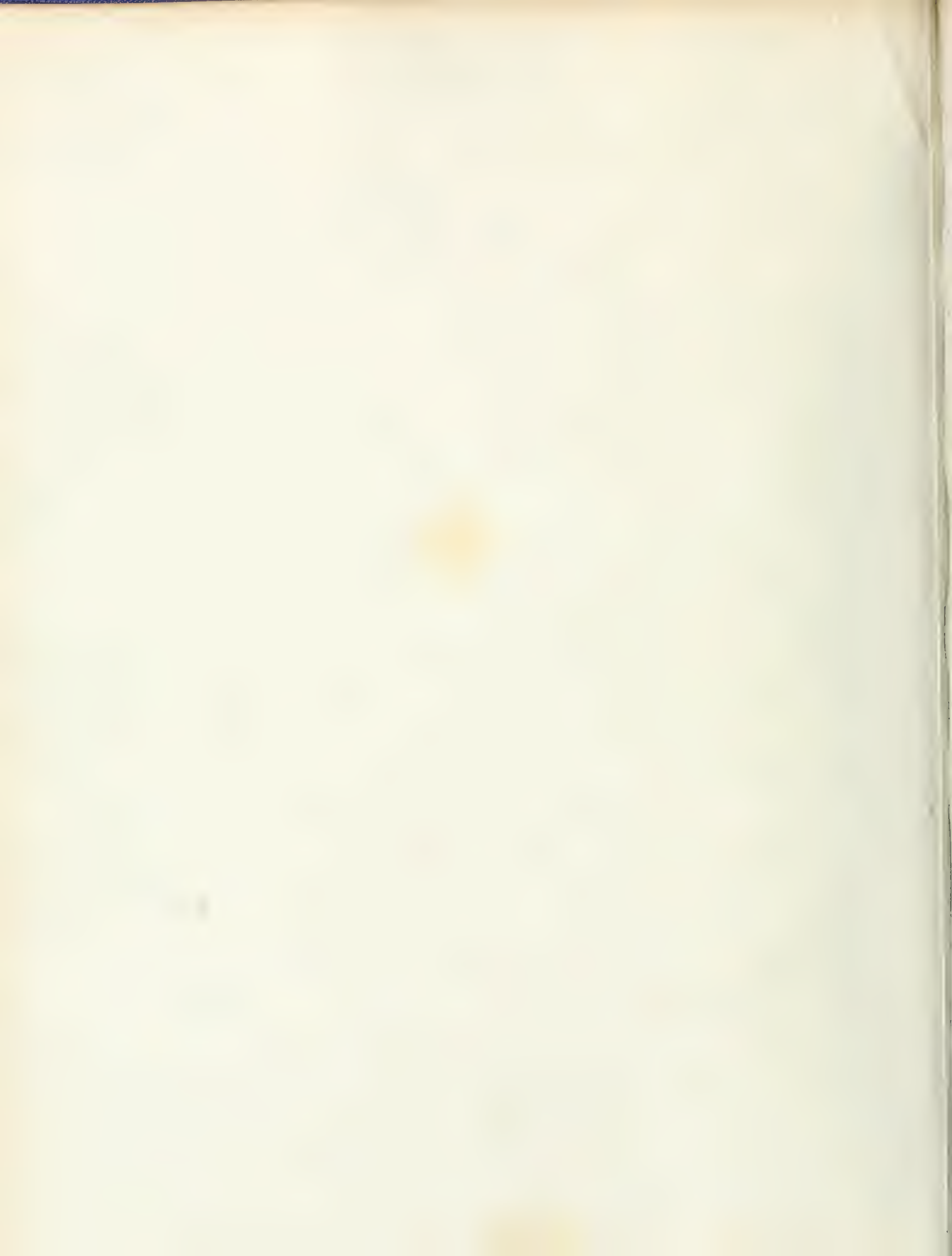
Fig. 20.



RATIO.

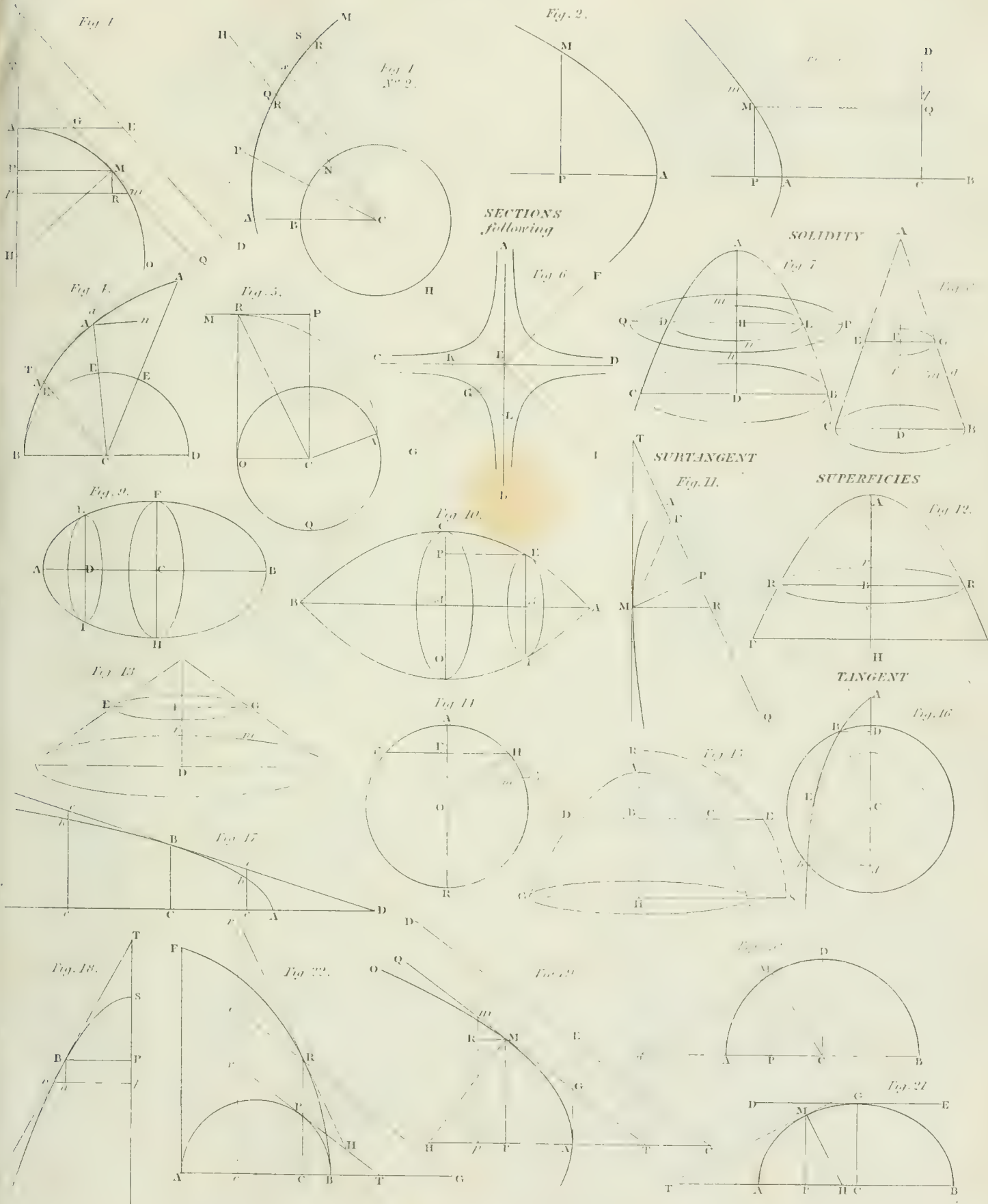
Fig. 21. Returned to as Fig. 9.

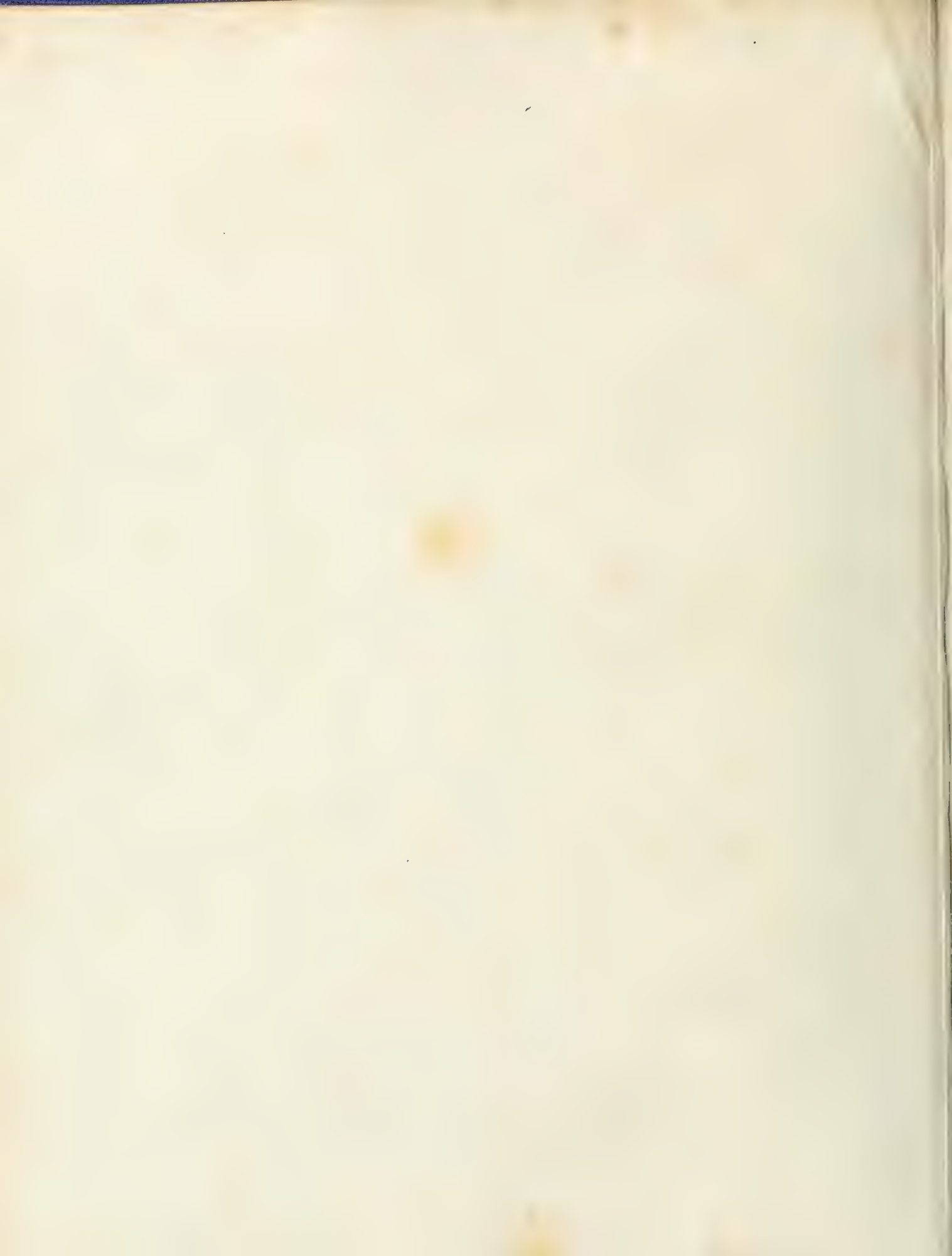






RECTIFICATION.





ANATOMY.

Organs of Sense.  
*Eye.*

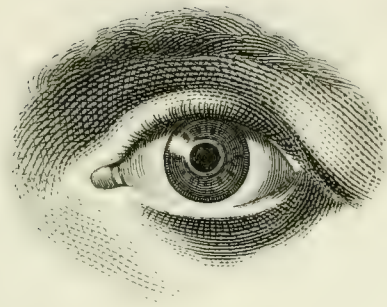


FIG. I.



II



III



IV



V





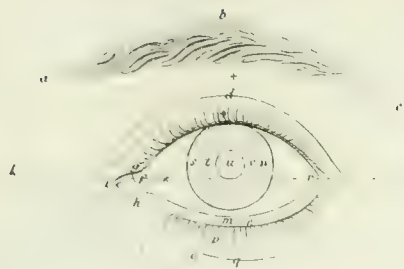


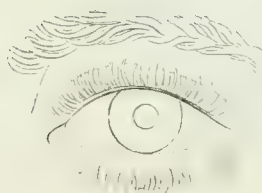
FIG. 1.



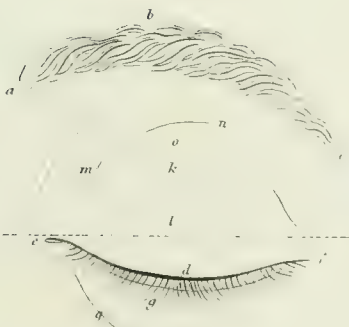
II.



III.

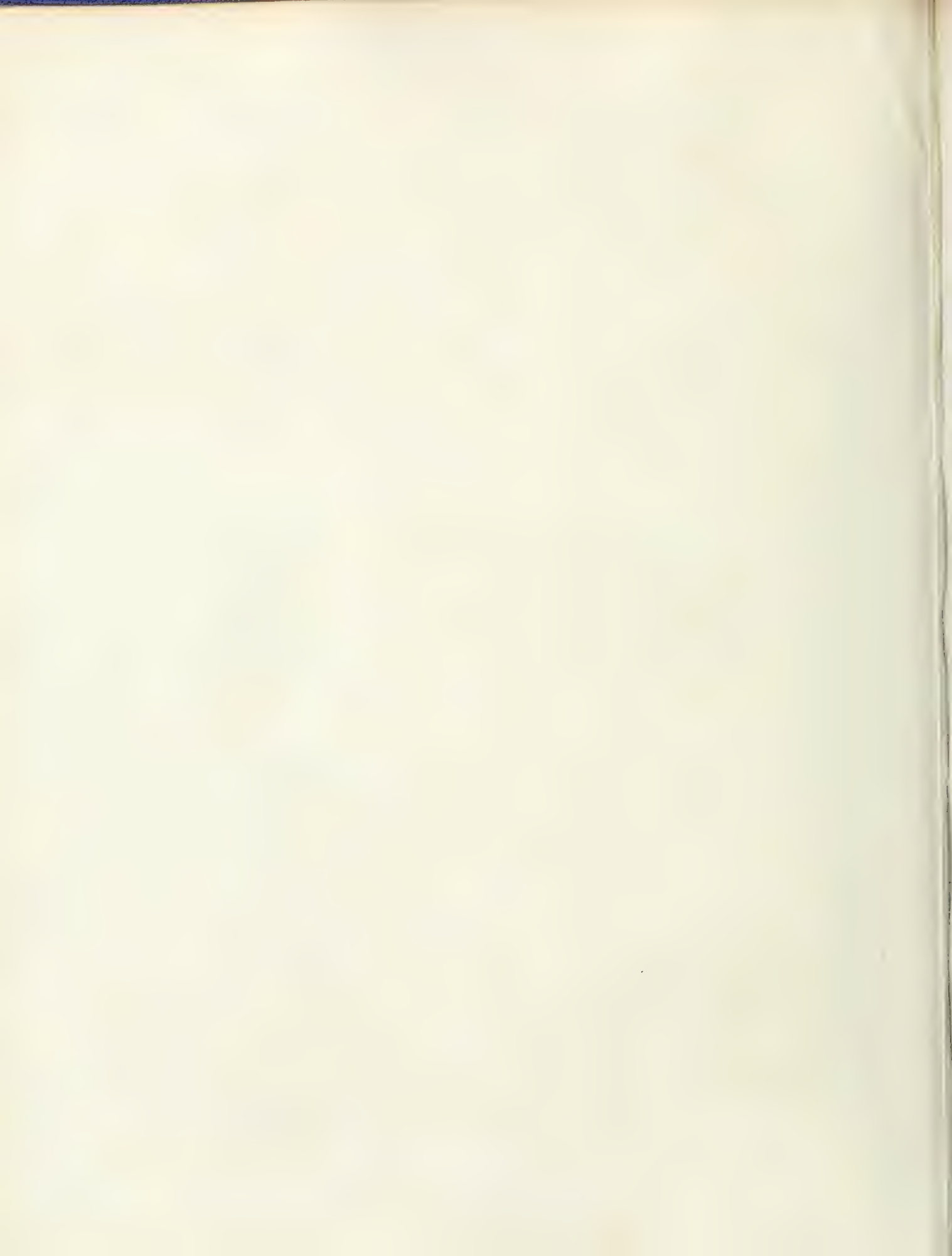


IV.



V.



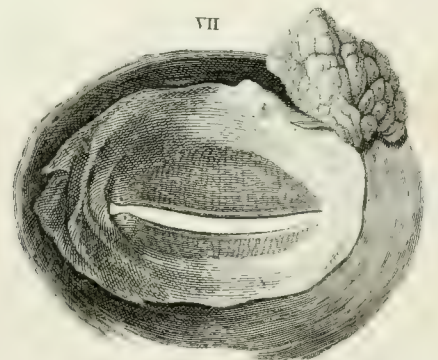
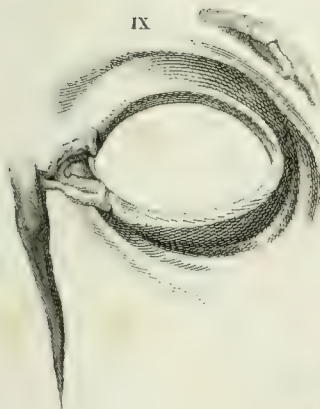
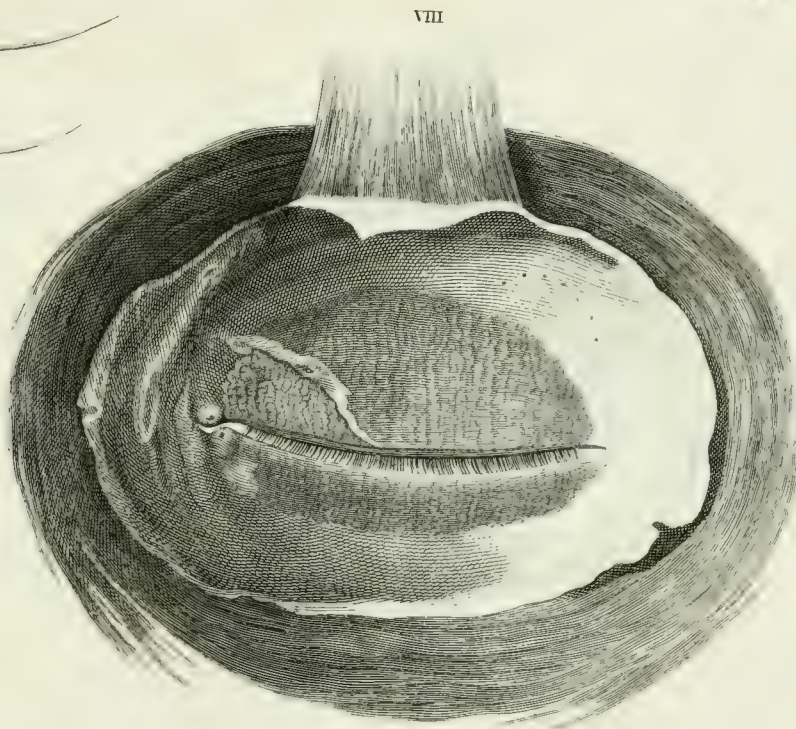
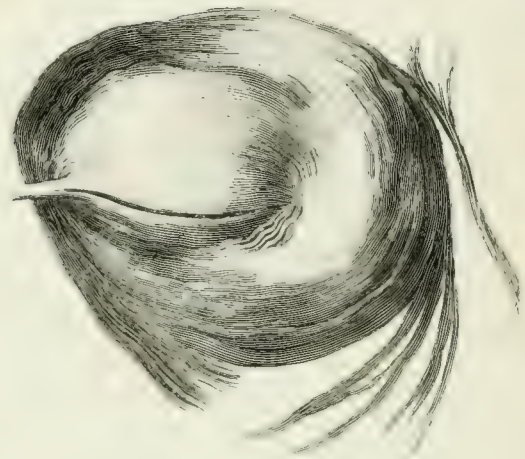
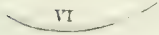
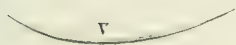
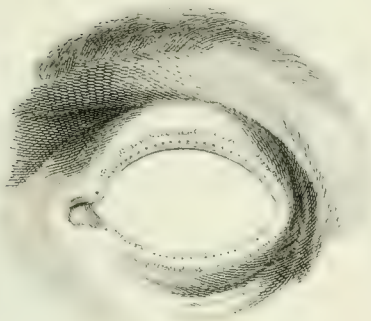
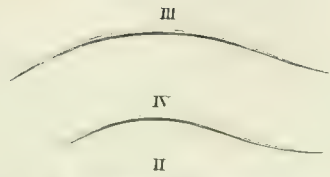


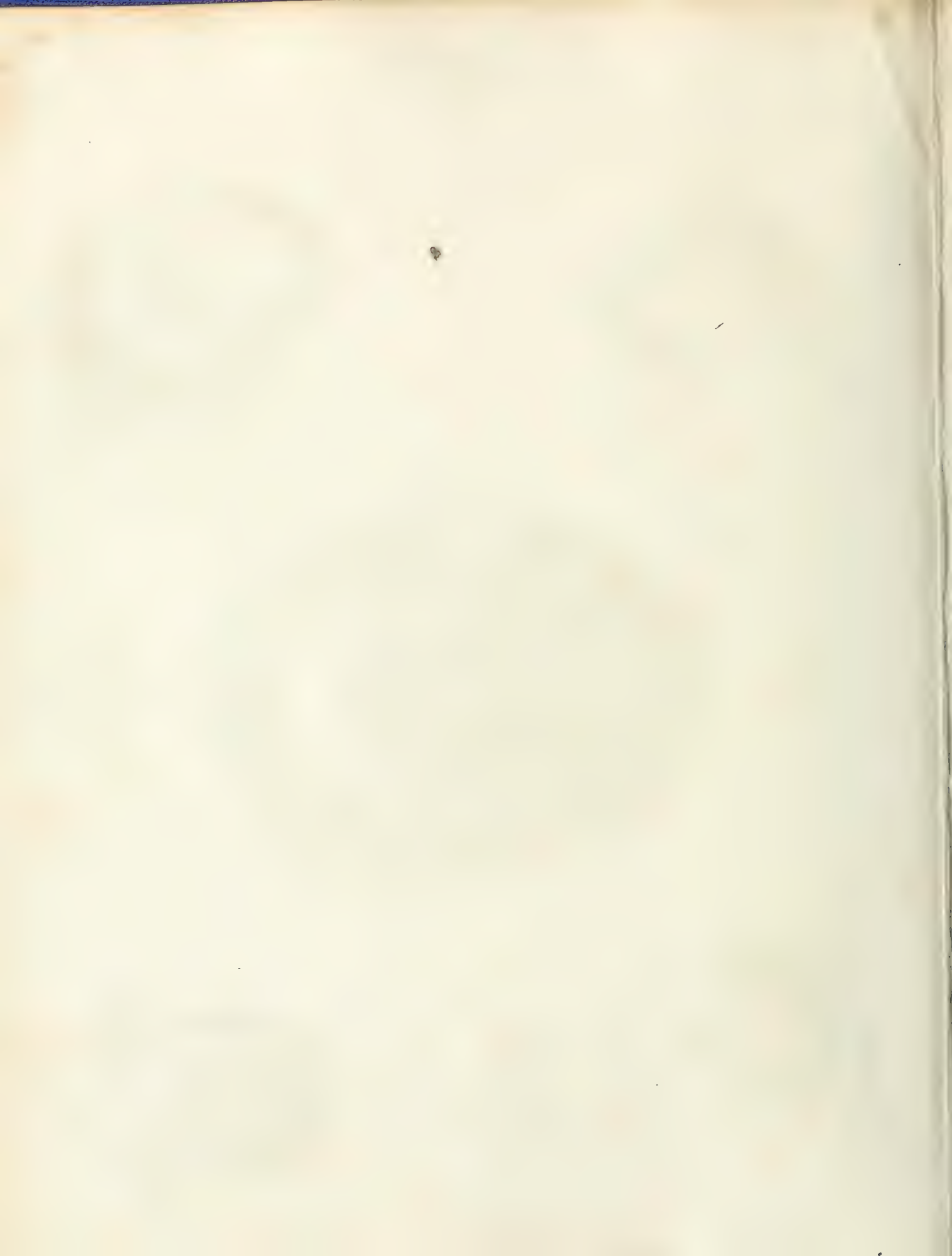
ANATOMY.

Organs of Sense.

Eye.

FIG. 1.







Organs of Sense.  
Eye.

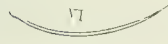
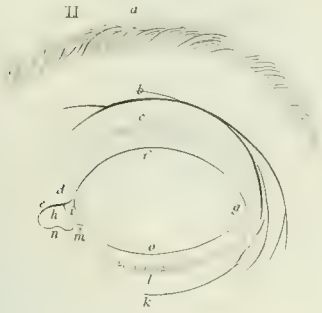
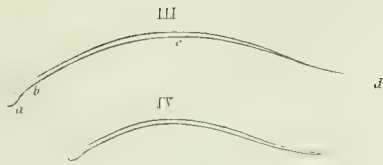
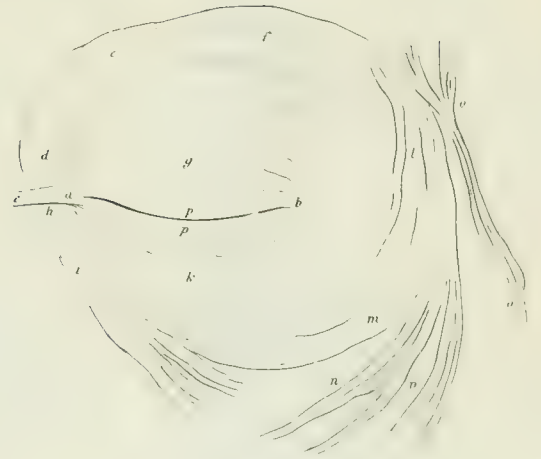
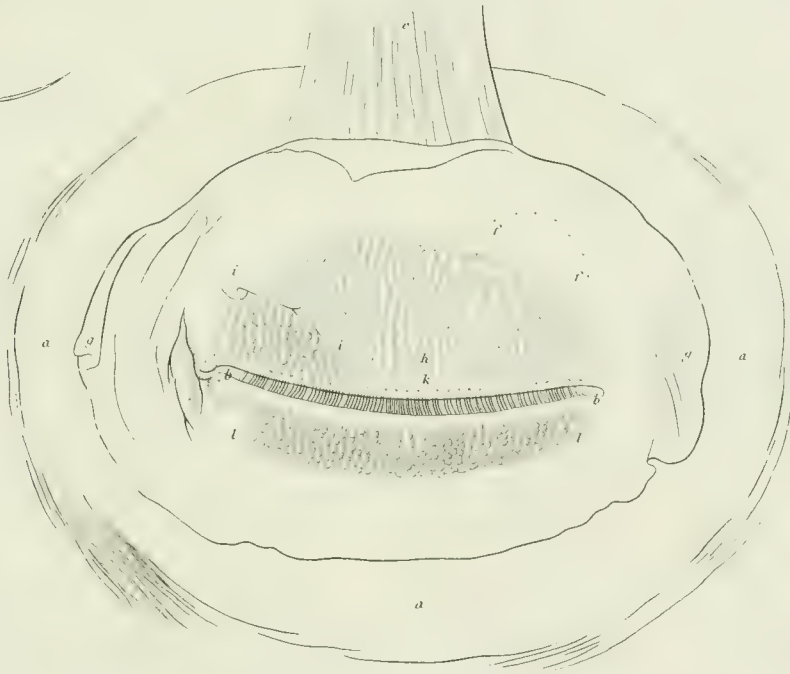


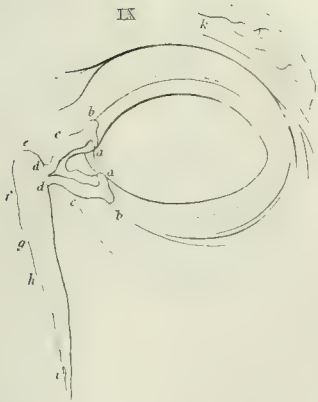
FIG. I.



VIII



IX



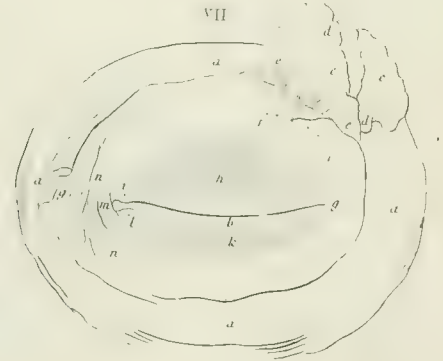
X



XI



VII



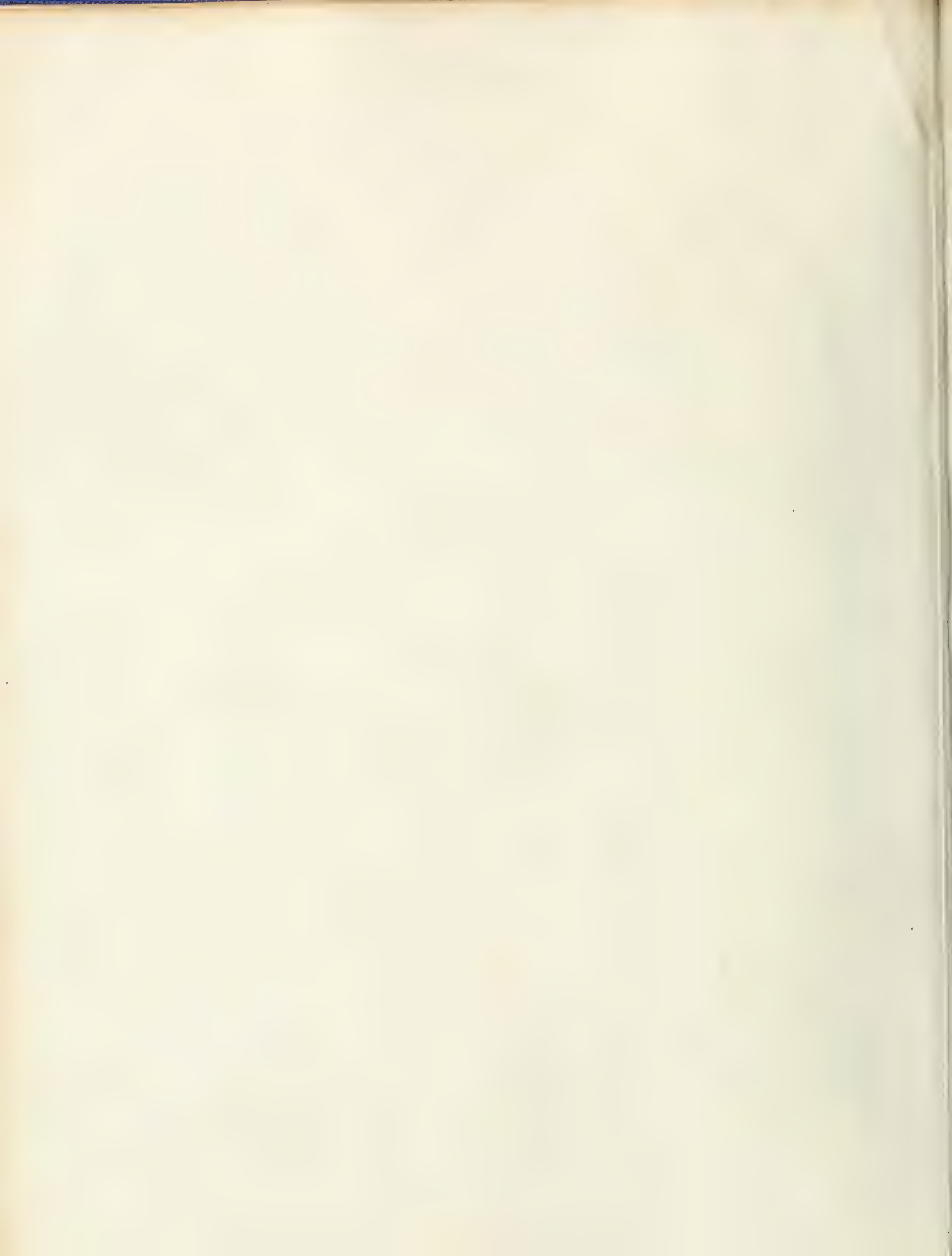
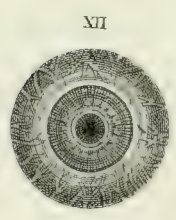
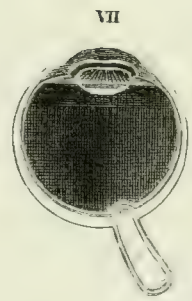
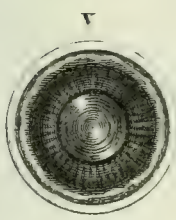
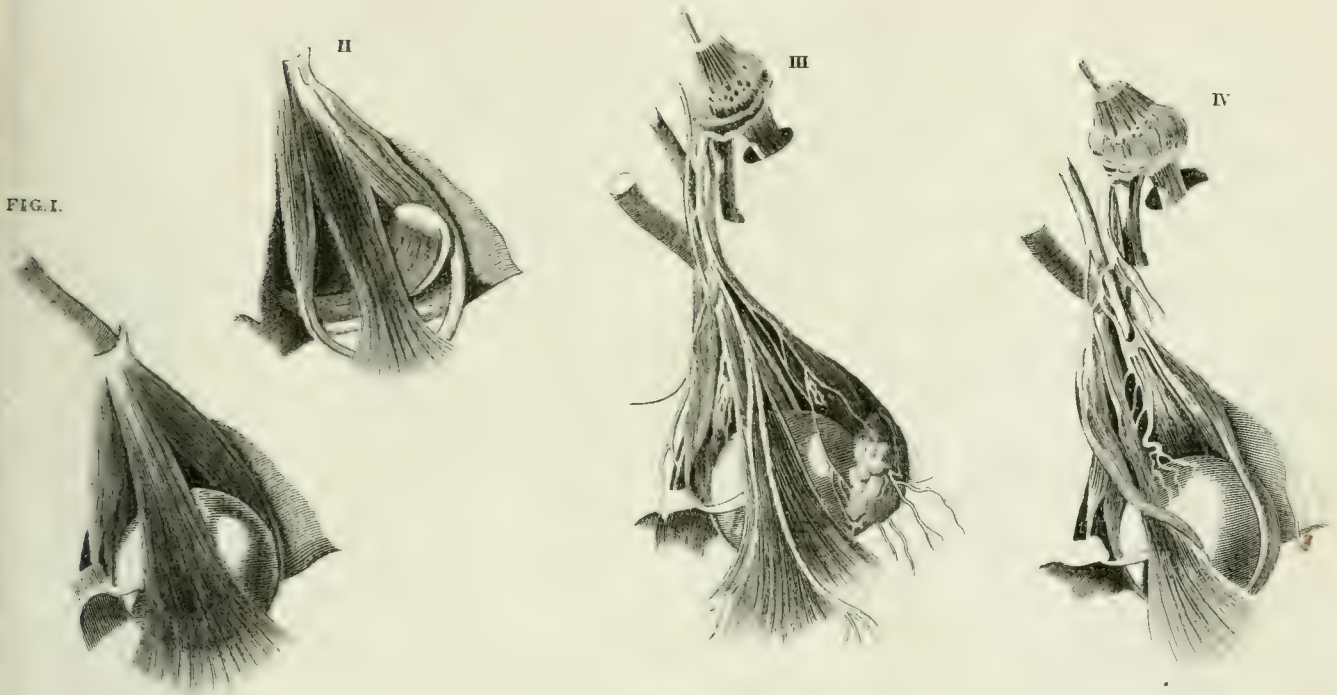
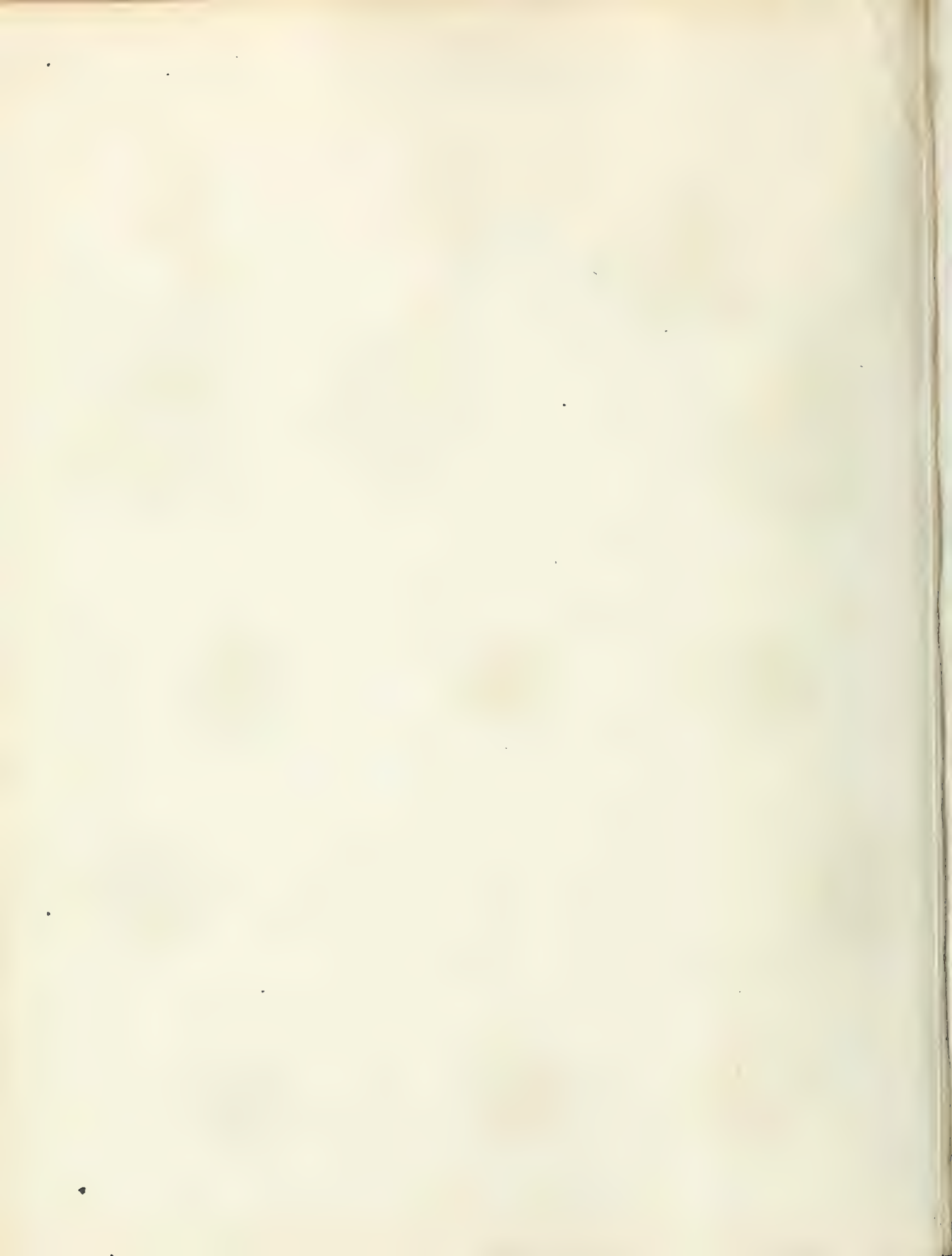


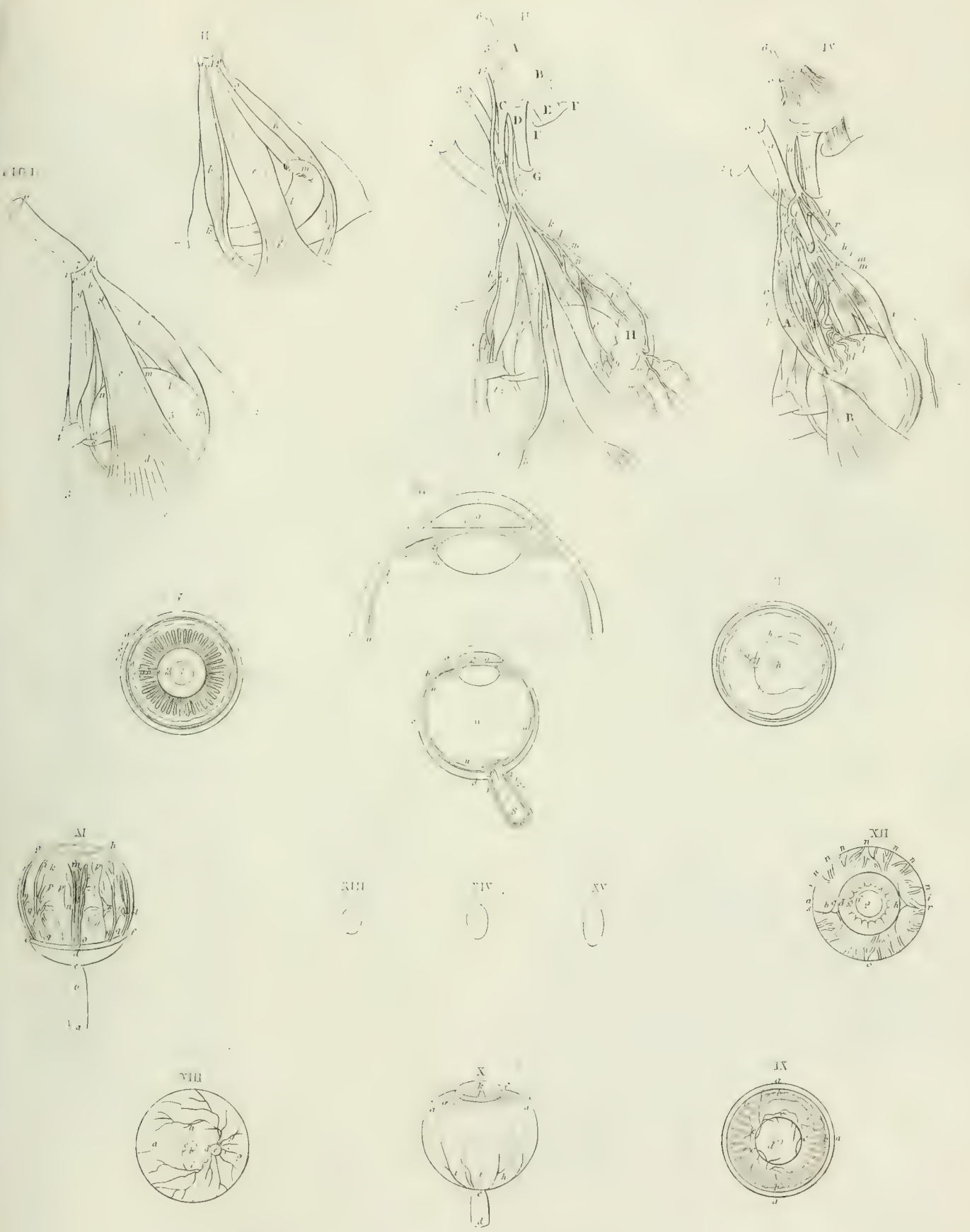
FIG. I.

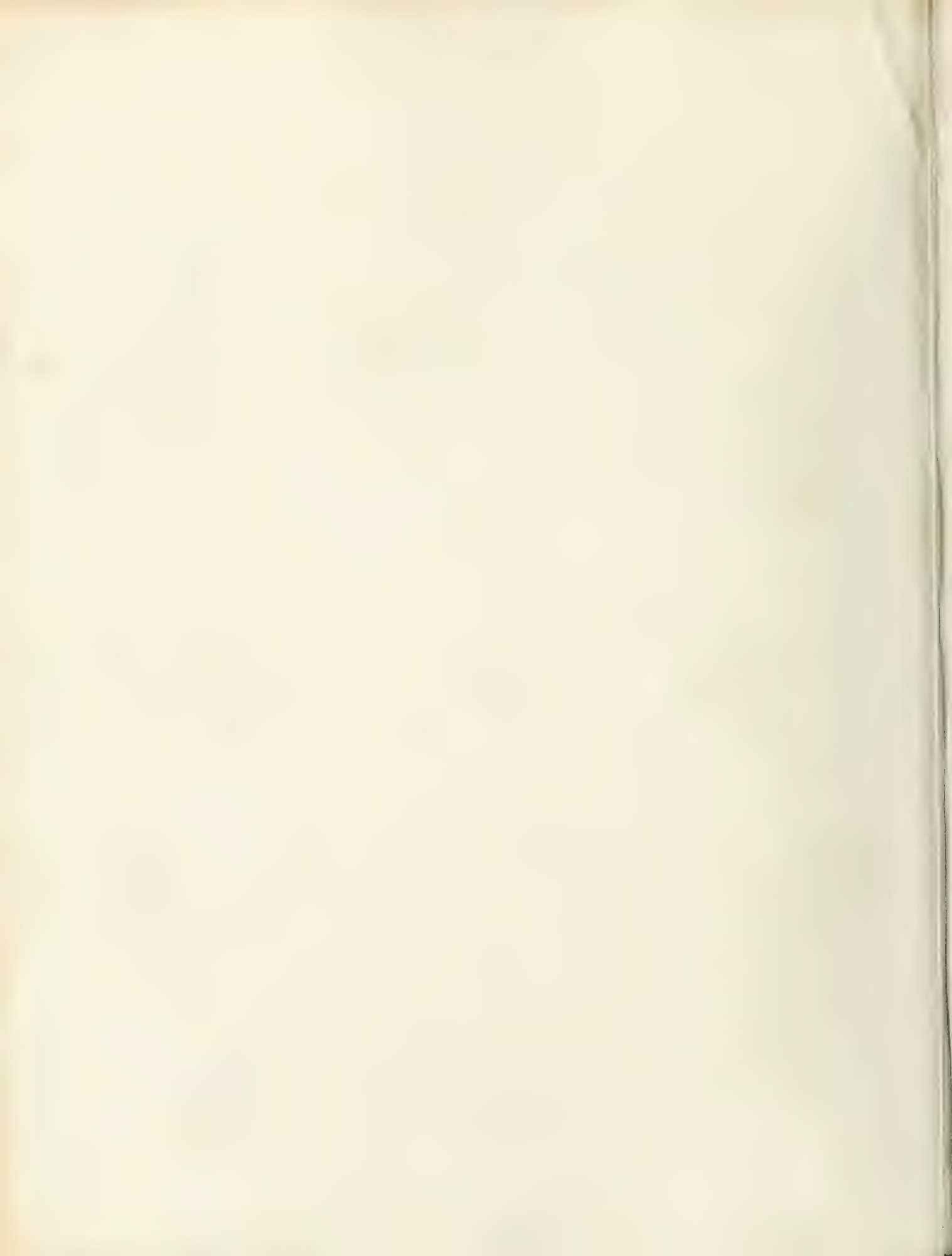






161



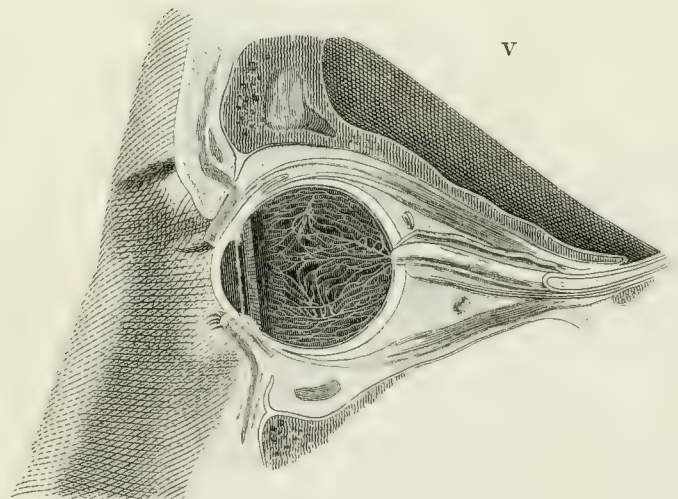
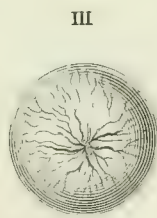
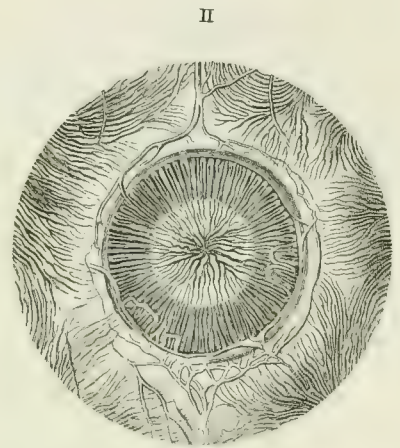
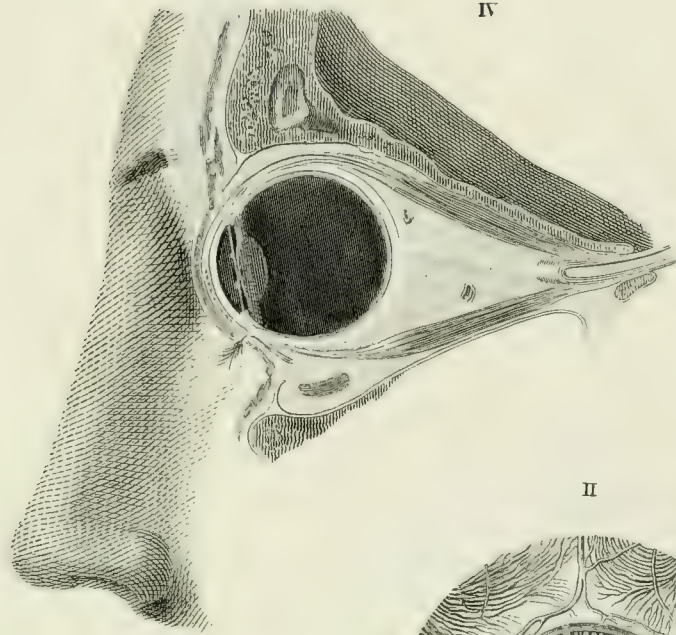
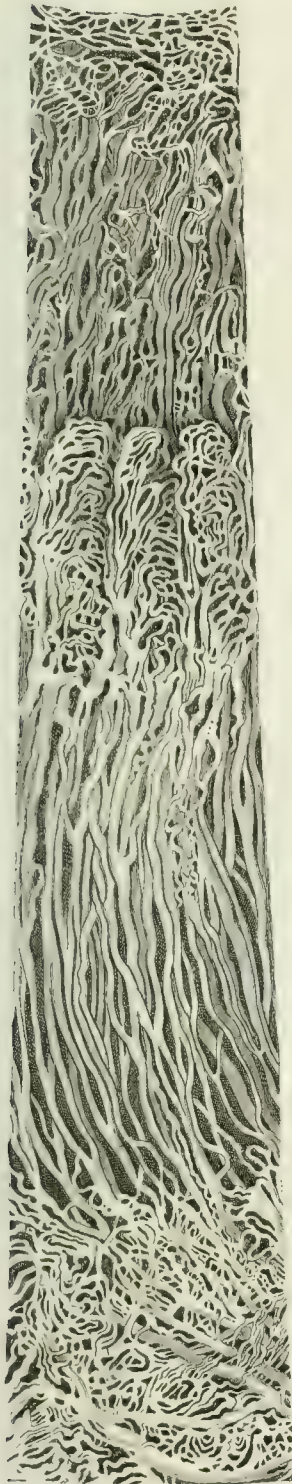


ANATOMY.

Organs of Sense.

Eye

FIG. I.



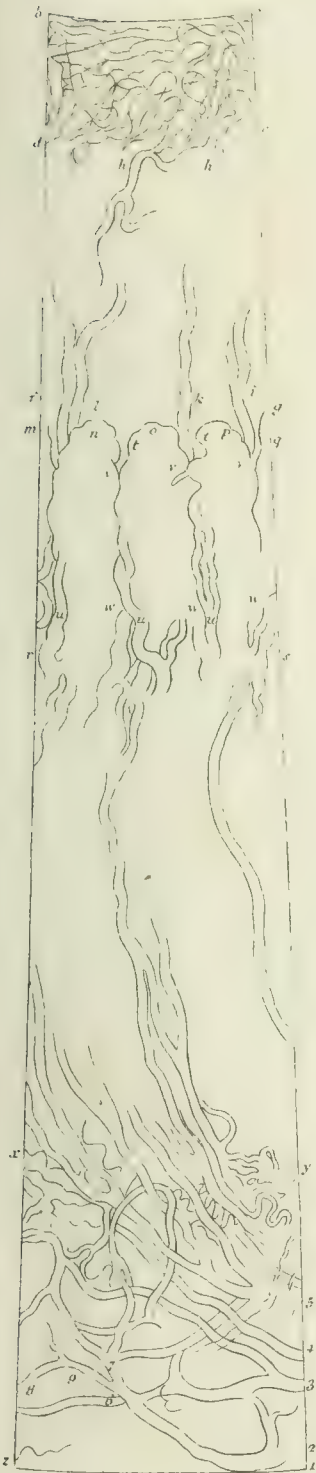




Organs of Sense.

Eye.

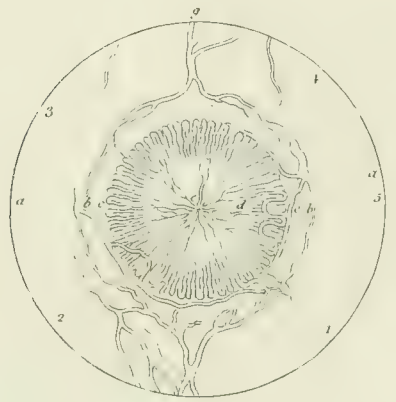
FIG. 1.



IV



II



V



VI



III



V





FIG IV

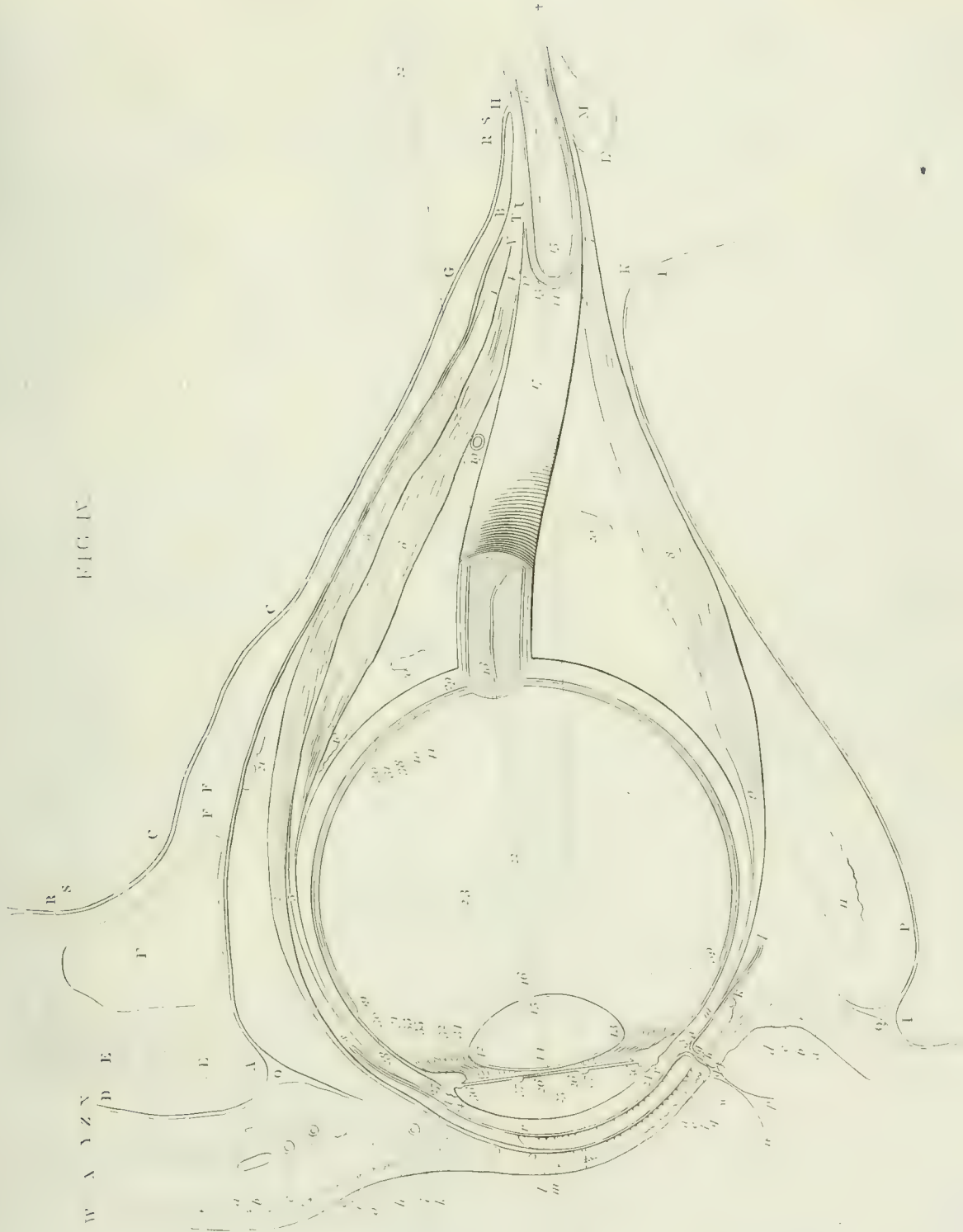
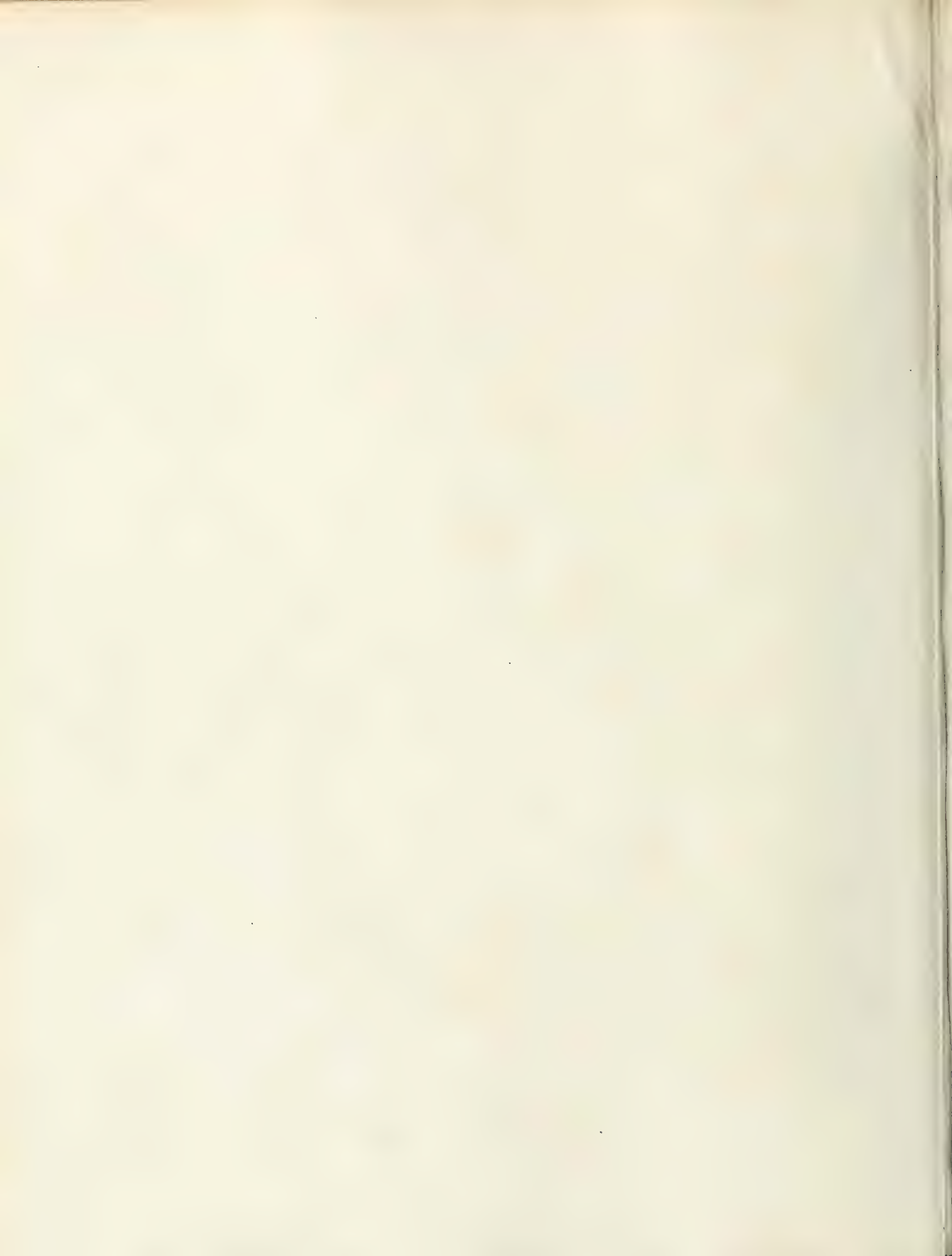


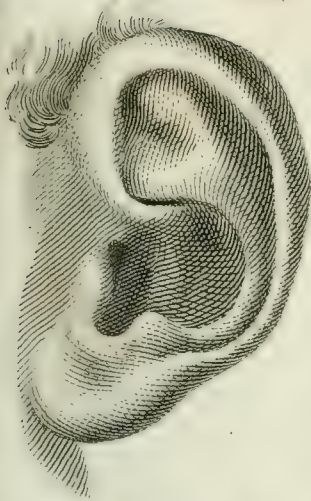
PLATE I. The Eye, showing the internal structure of the eye, as seen from the front.



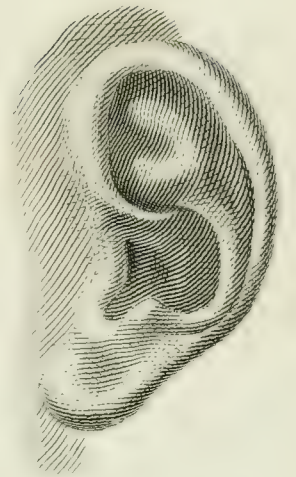


ANATOMY.  
Organs of Sense.  
Ear.

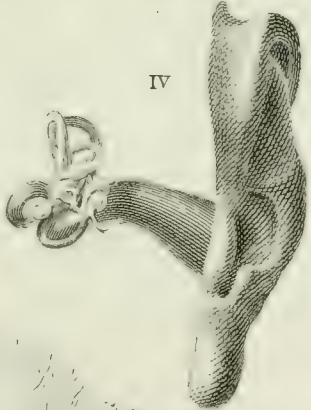
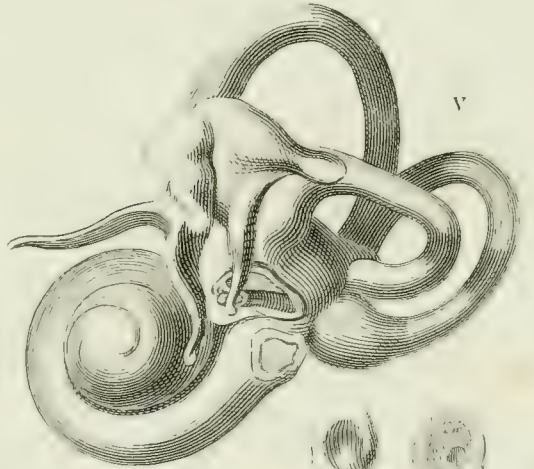
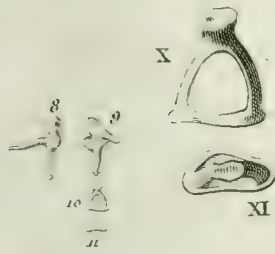
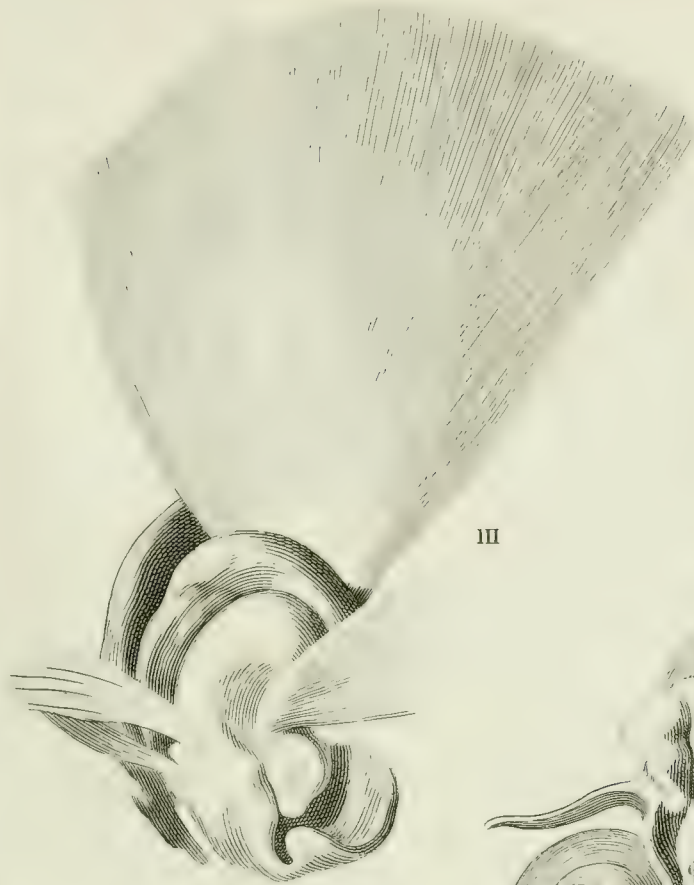
FIG. 1



II



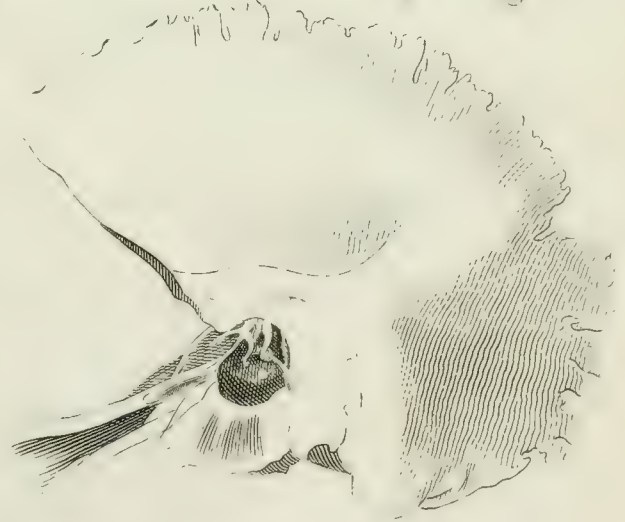
III

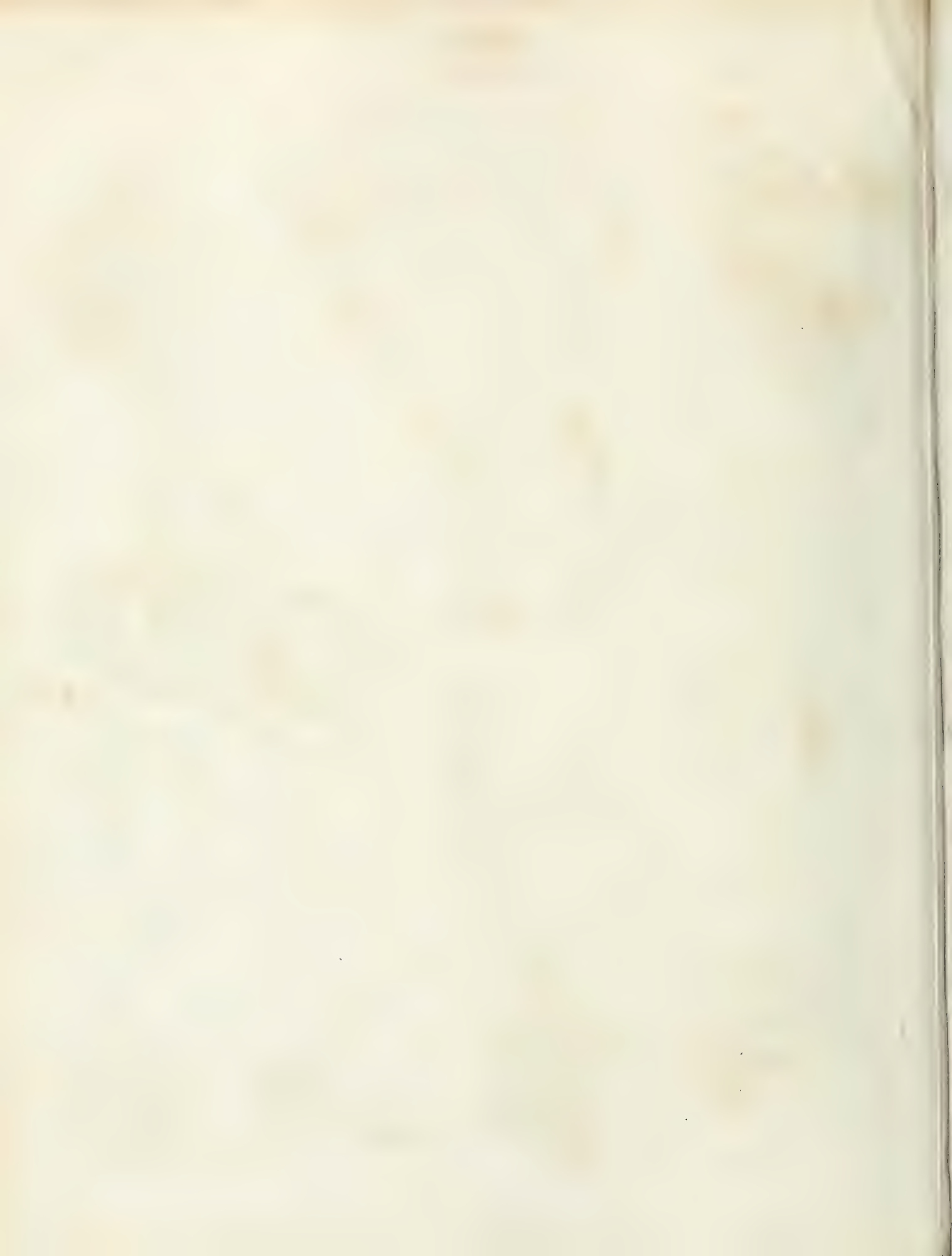


XII



XIII

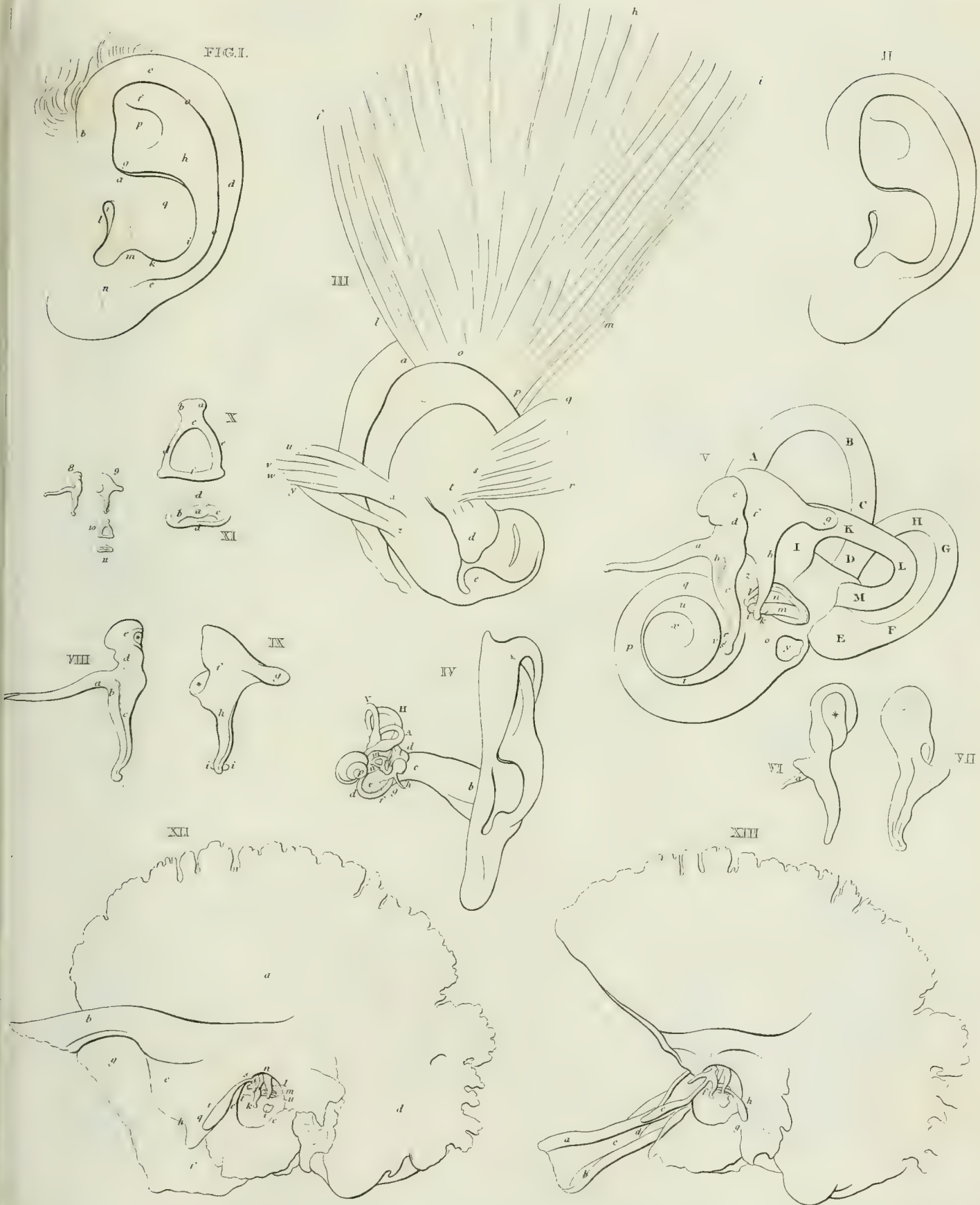


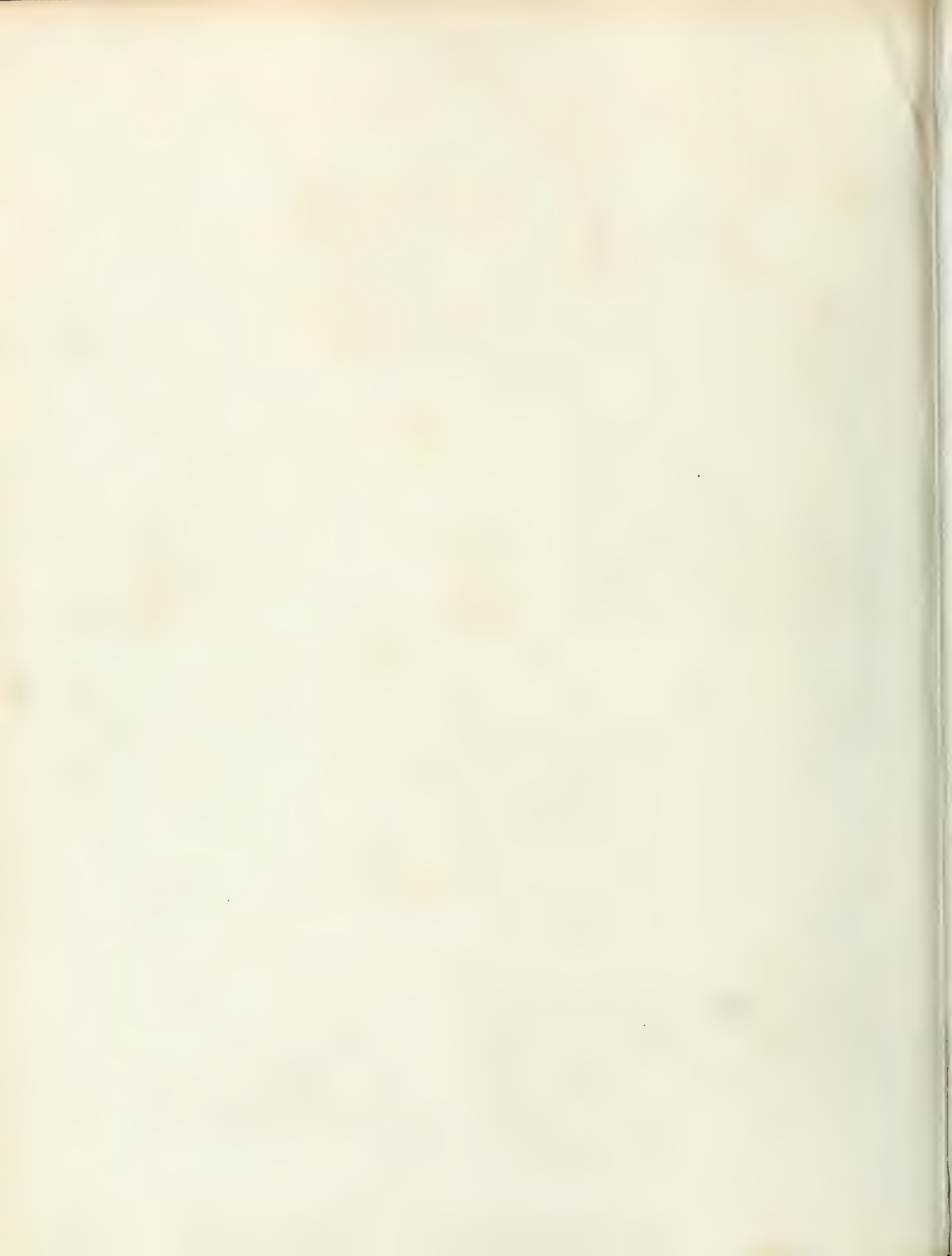


ANATOMY.

Organs of Sense.

Ear.





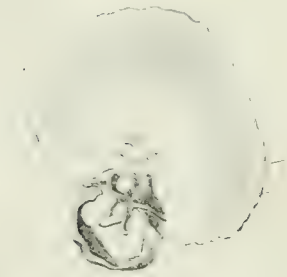
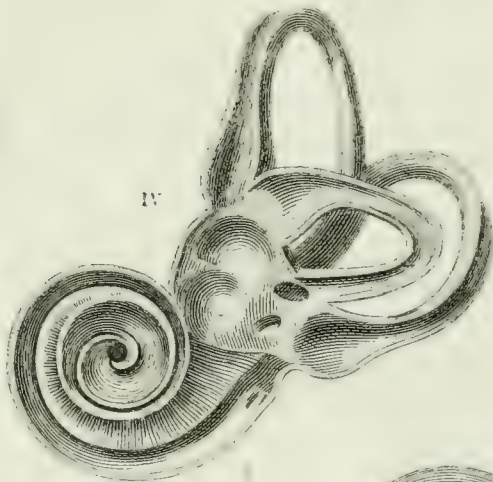


Organs of Sense.  
Ear.

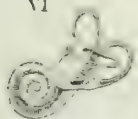
II



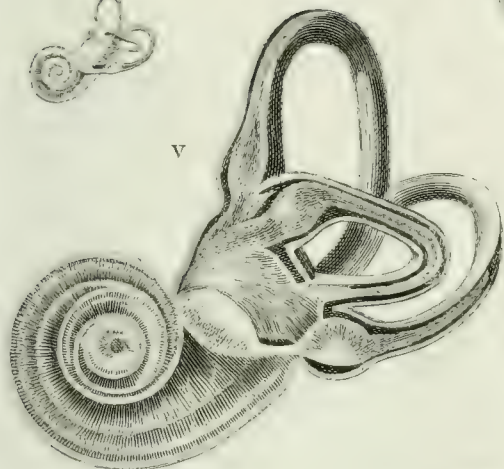
IV



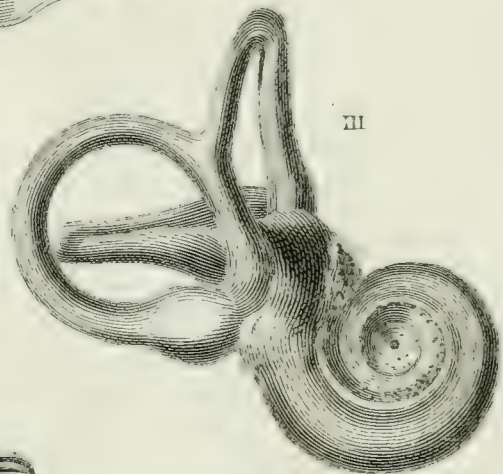
VI



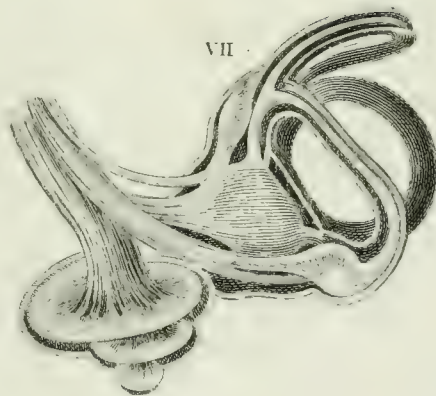
V



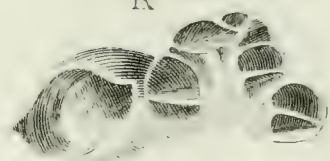
III



VII



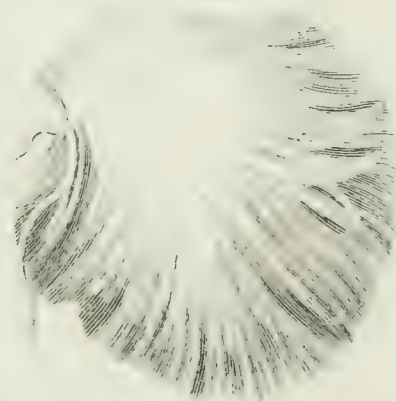
IX



VIII



XIII



XII

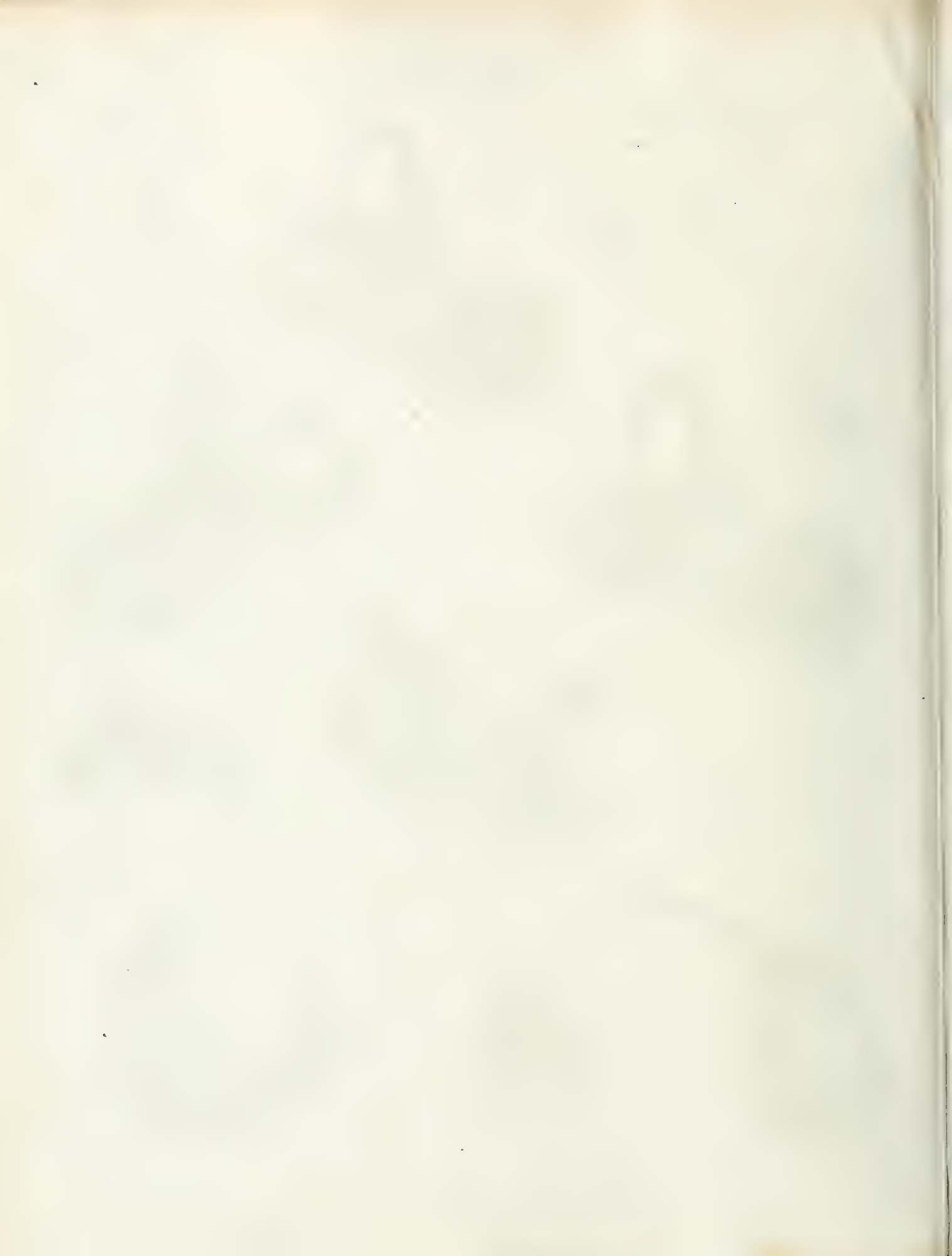


XI



X





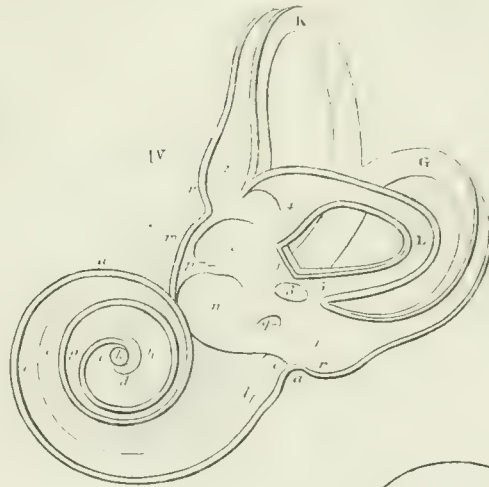
Organs of Sense.

Ear

FIG. II.



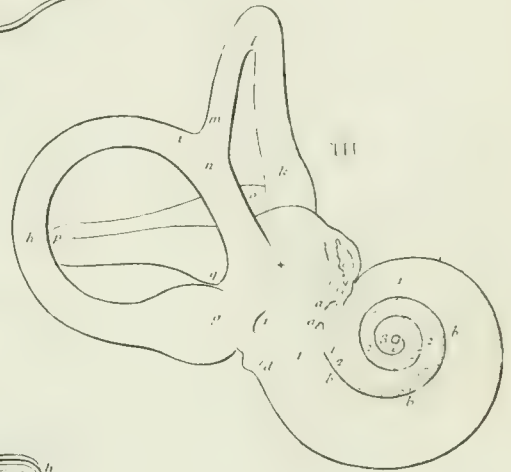
IV



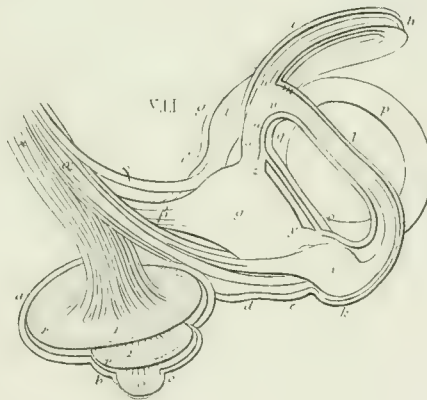
VI



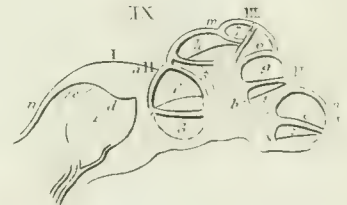
VII



VIII



IX



XIII



XIV



XV



XVI



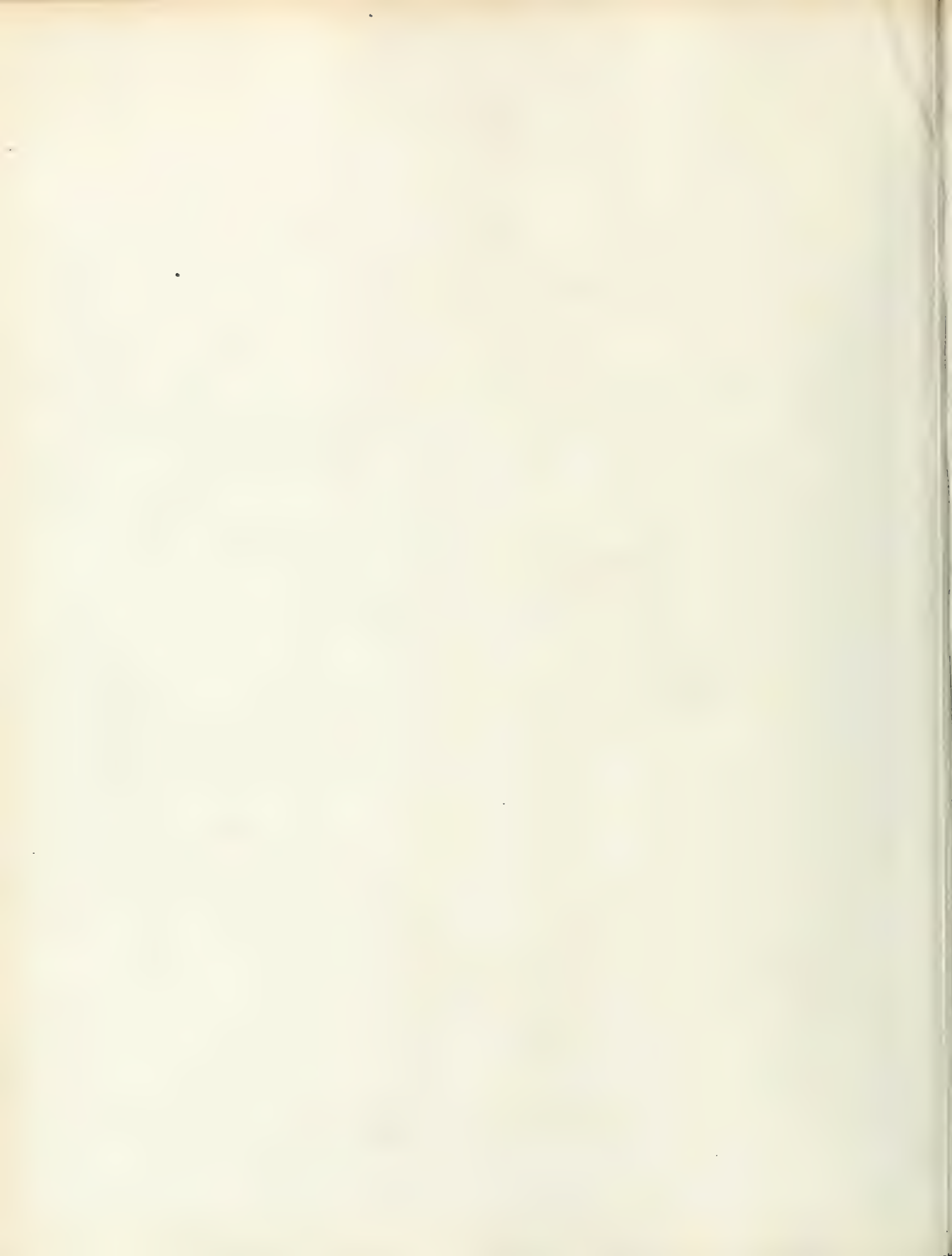


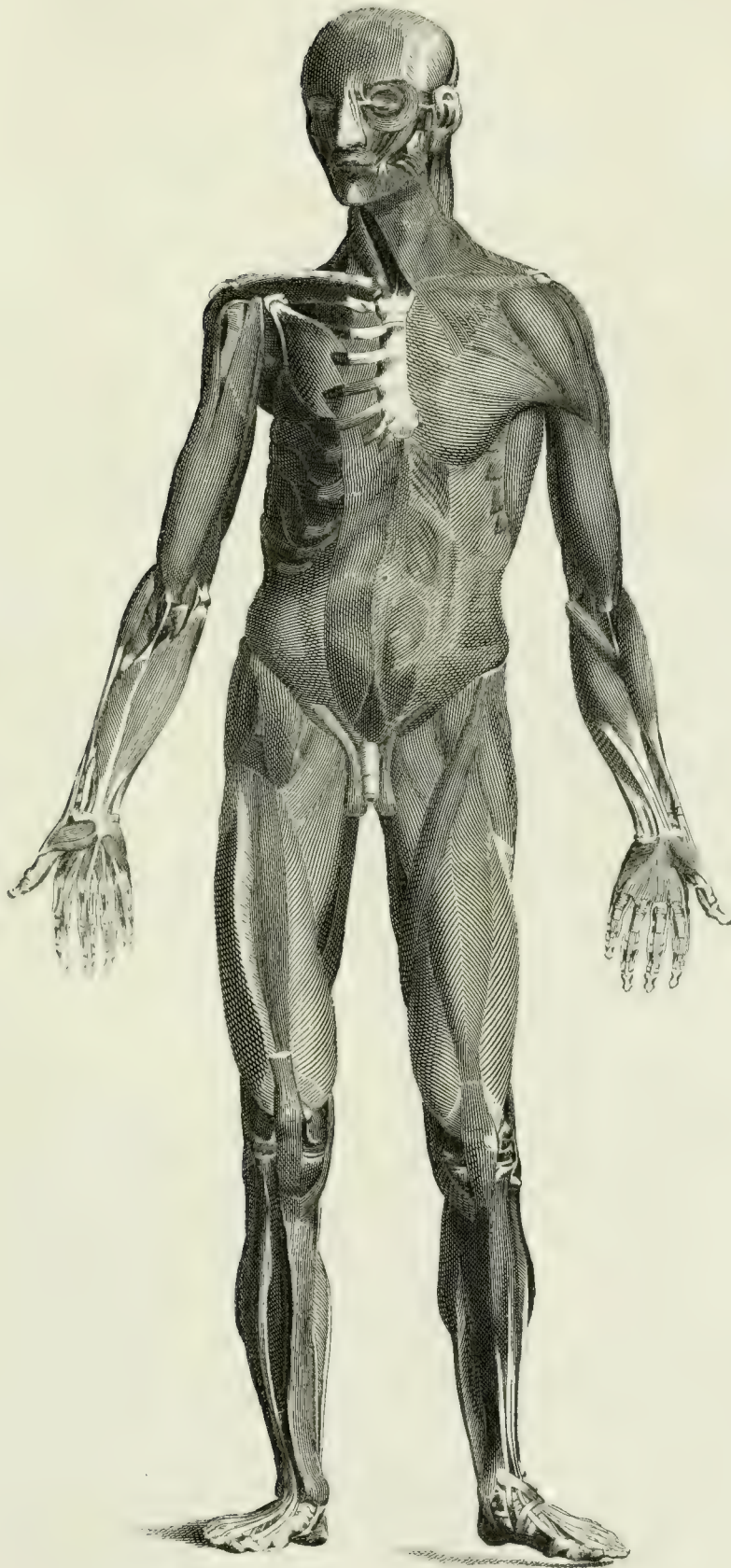


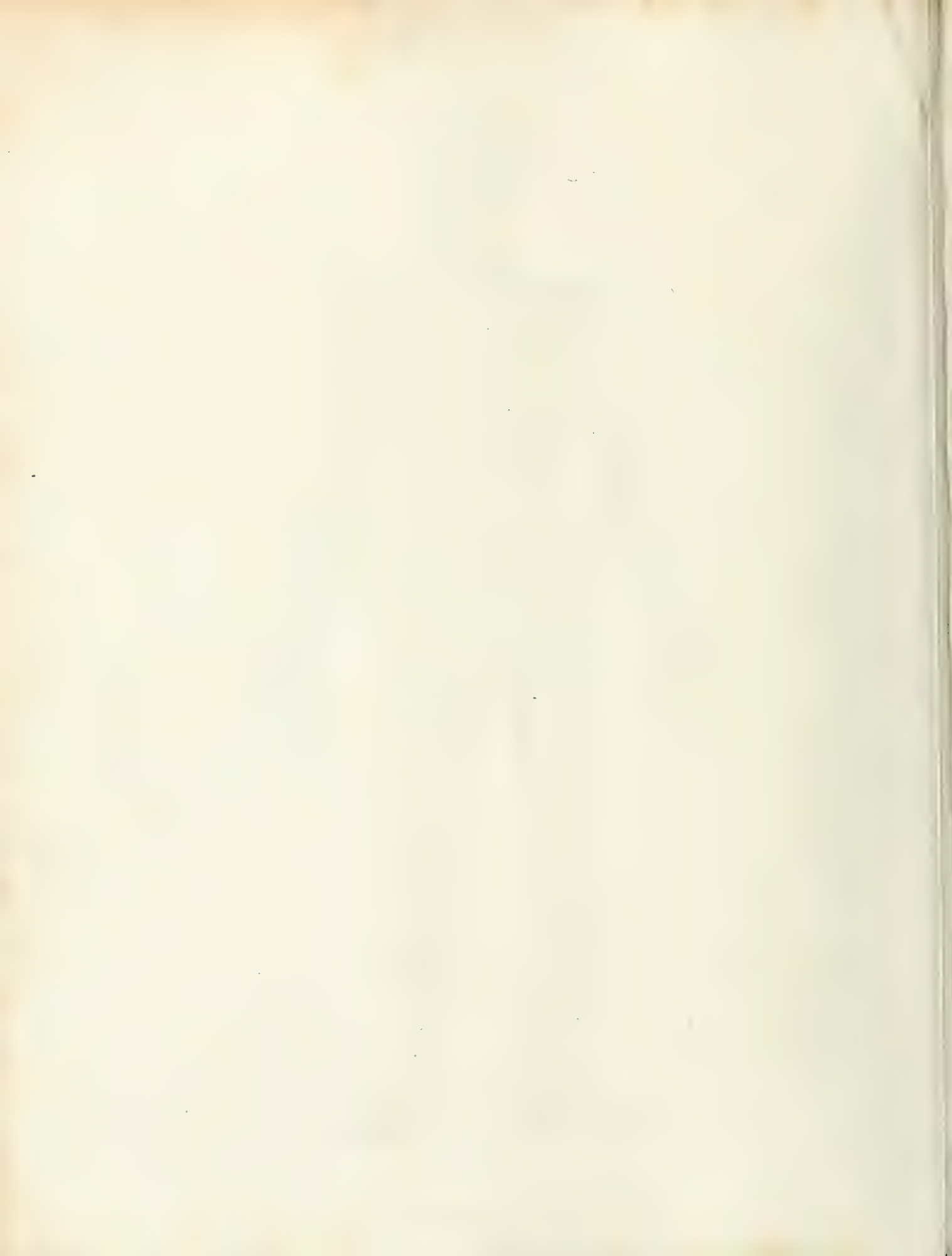
Organs of Sense.

Fig. 1.





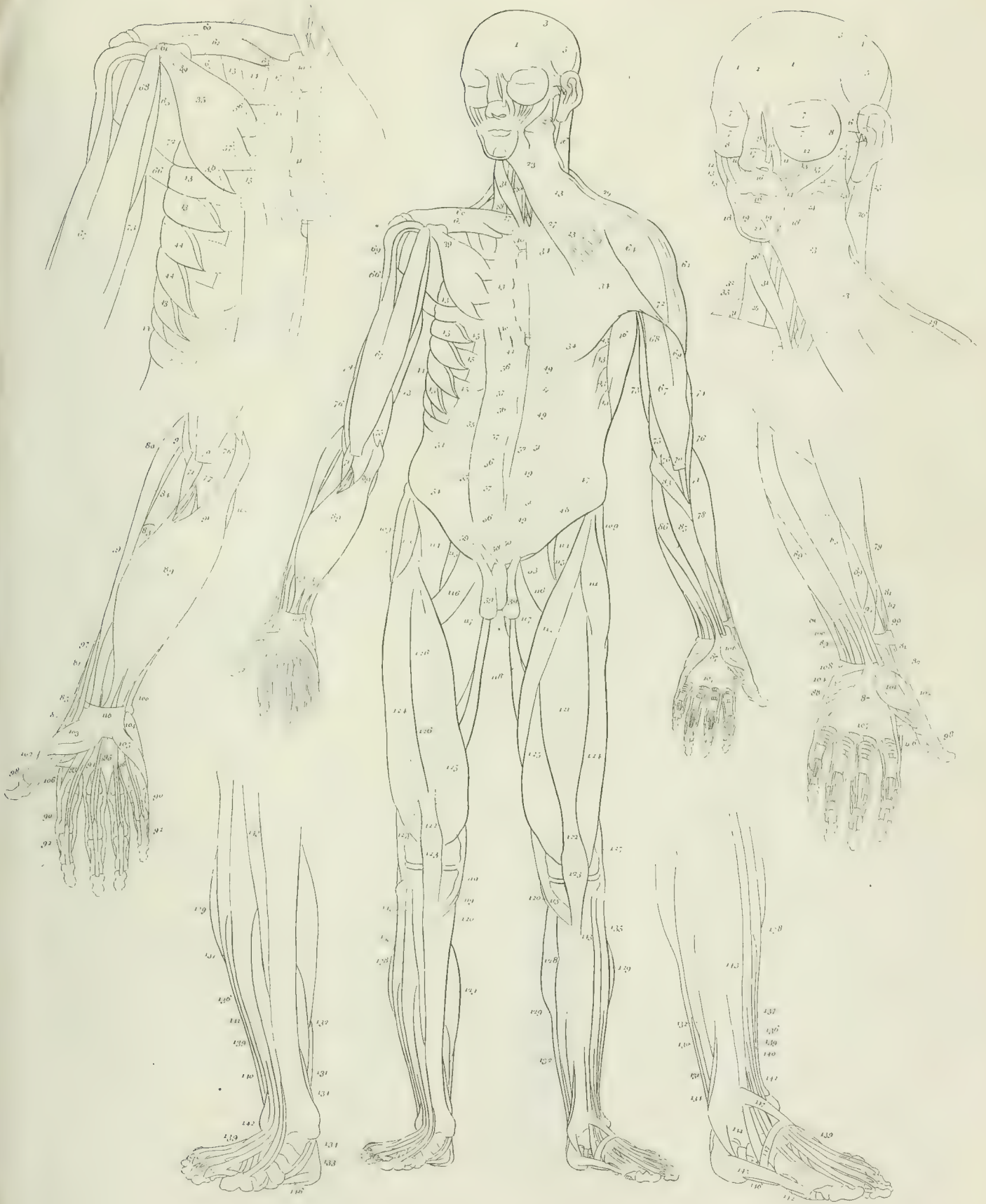


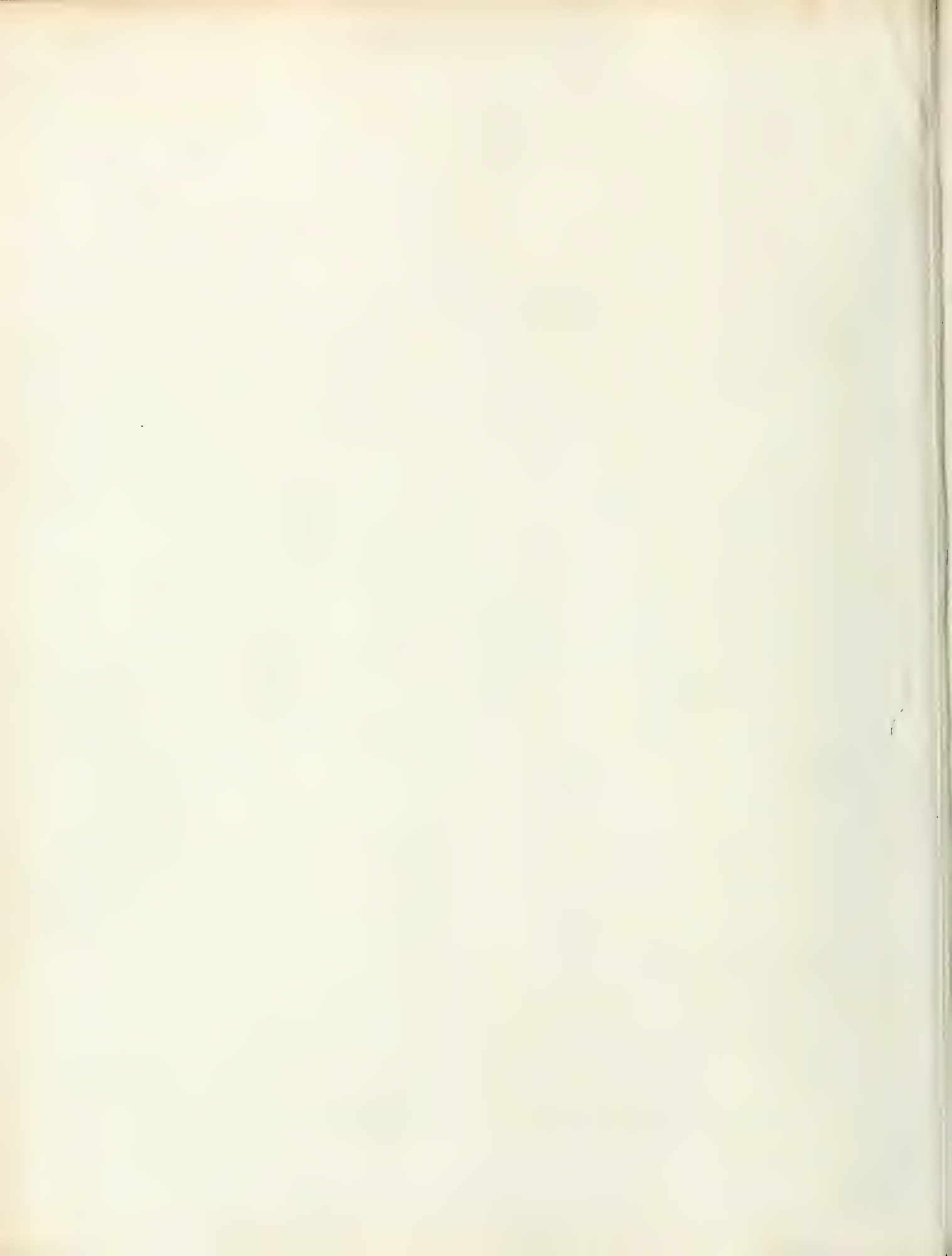




# ANATOMY.

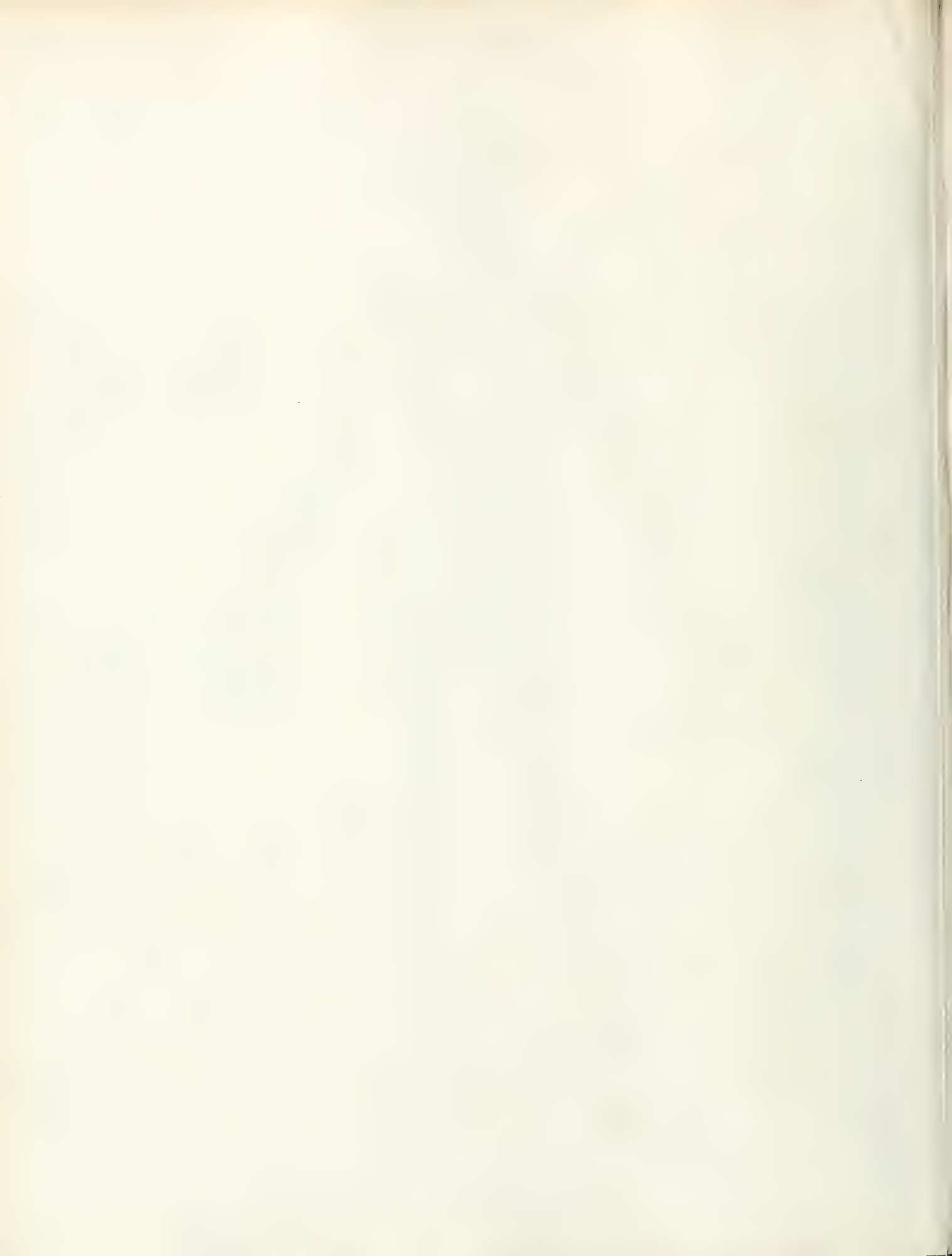
## Myology.





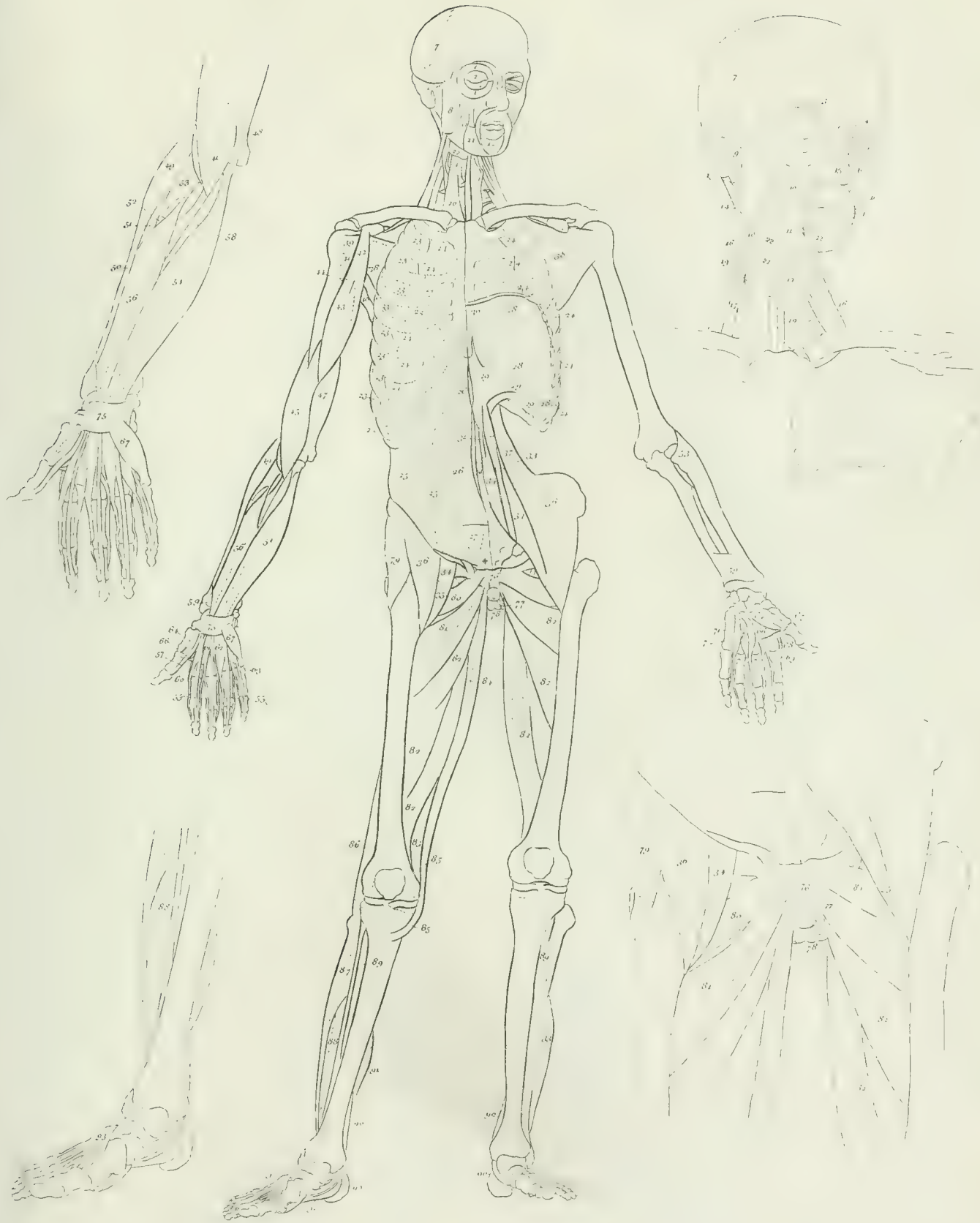
*Myology*

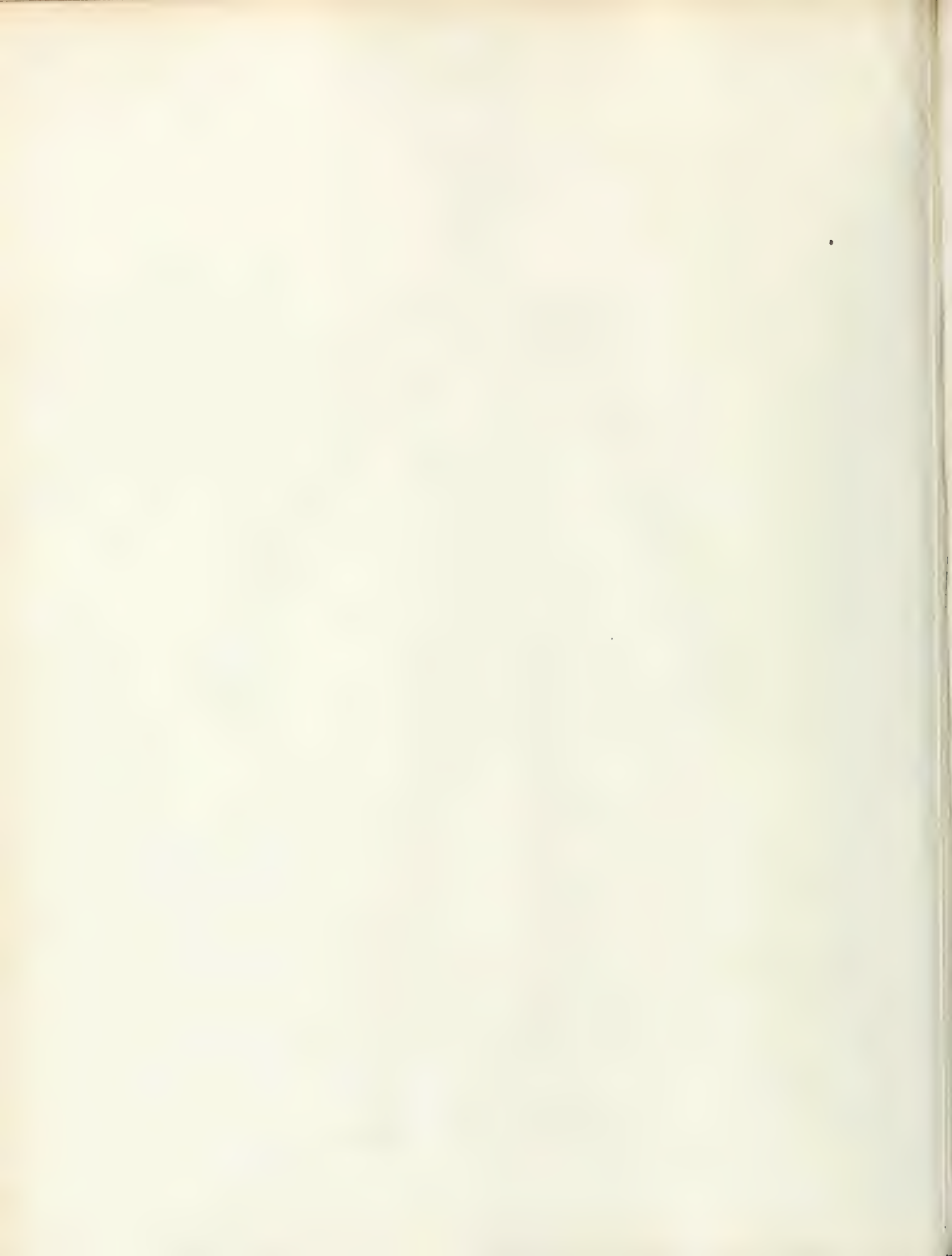




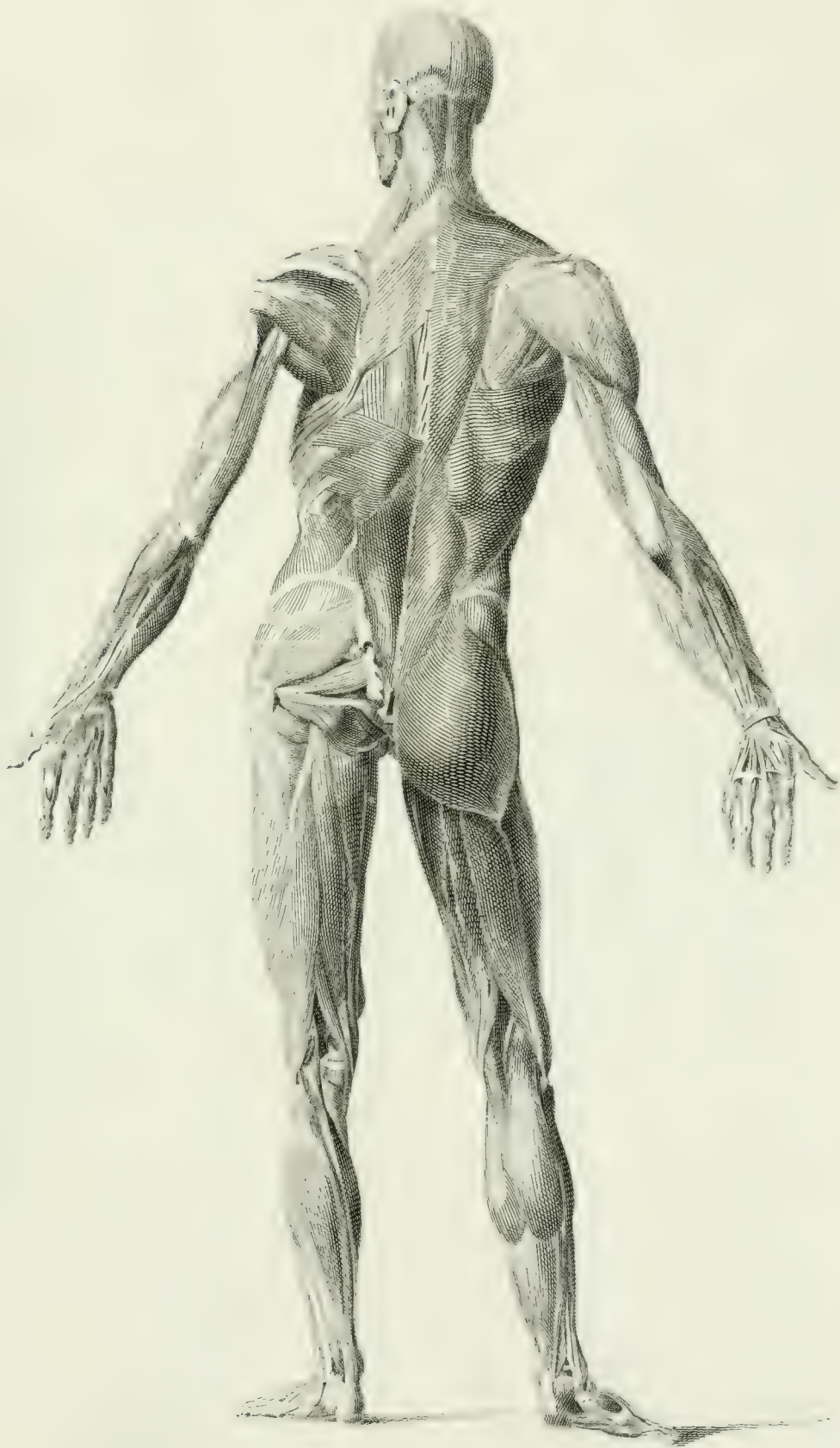


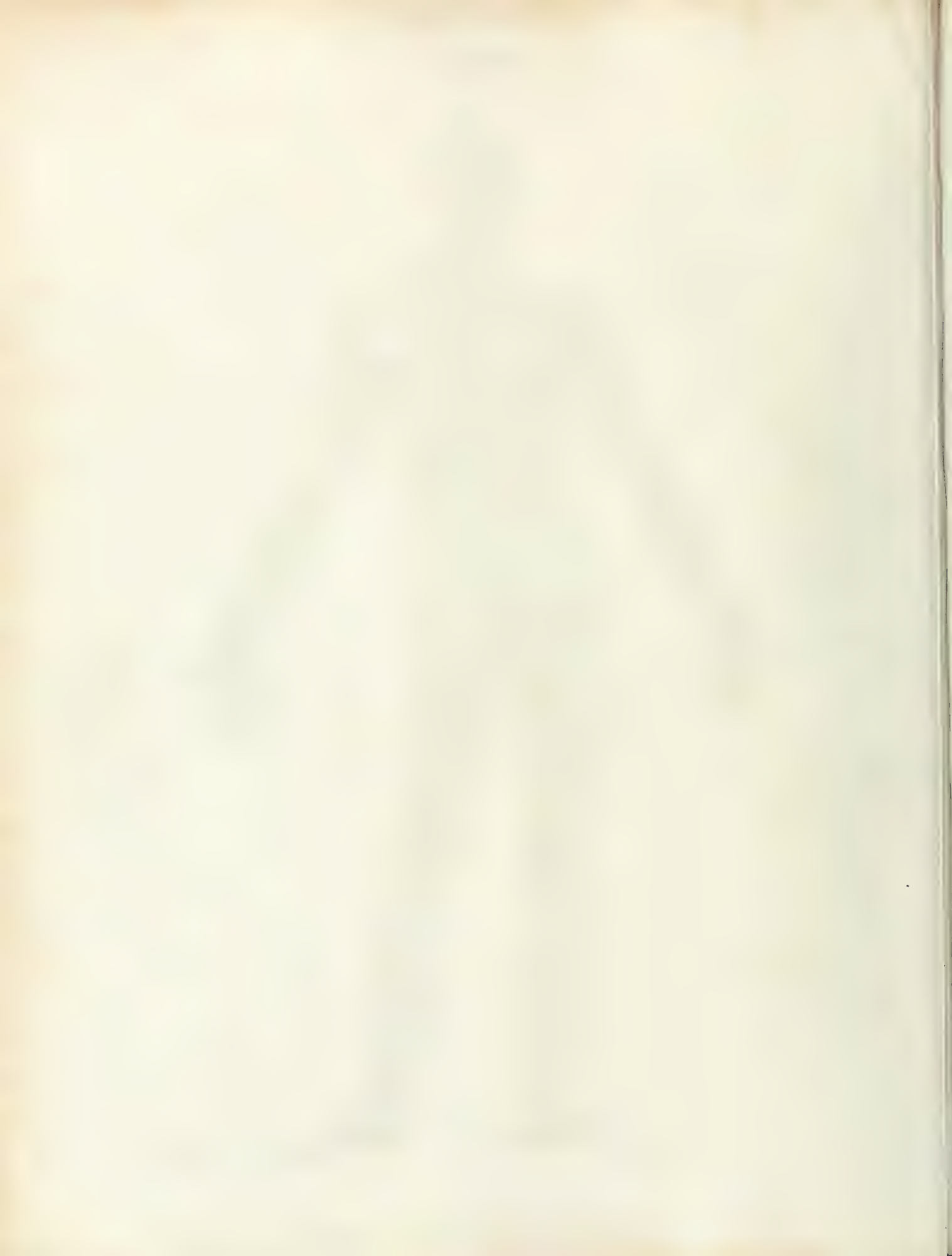
Myology.





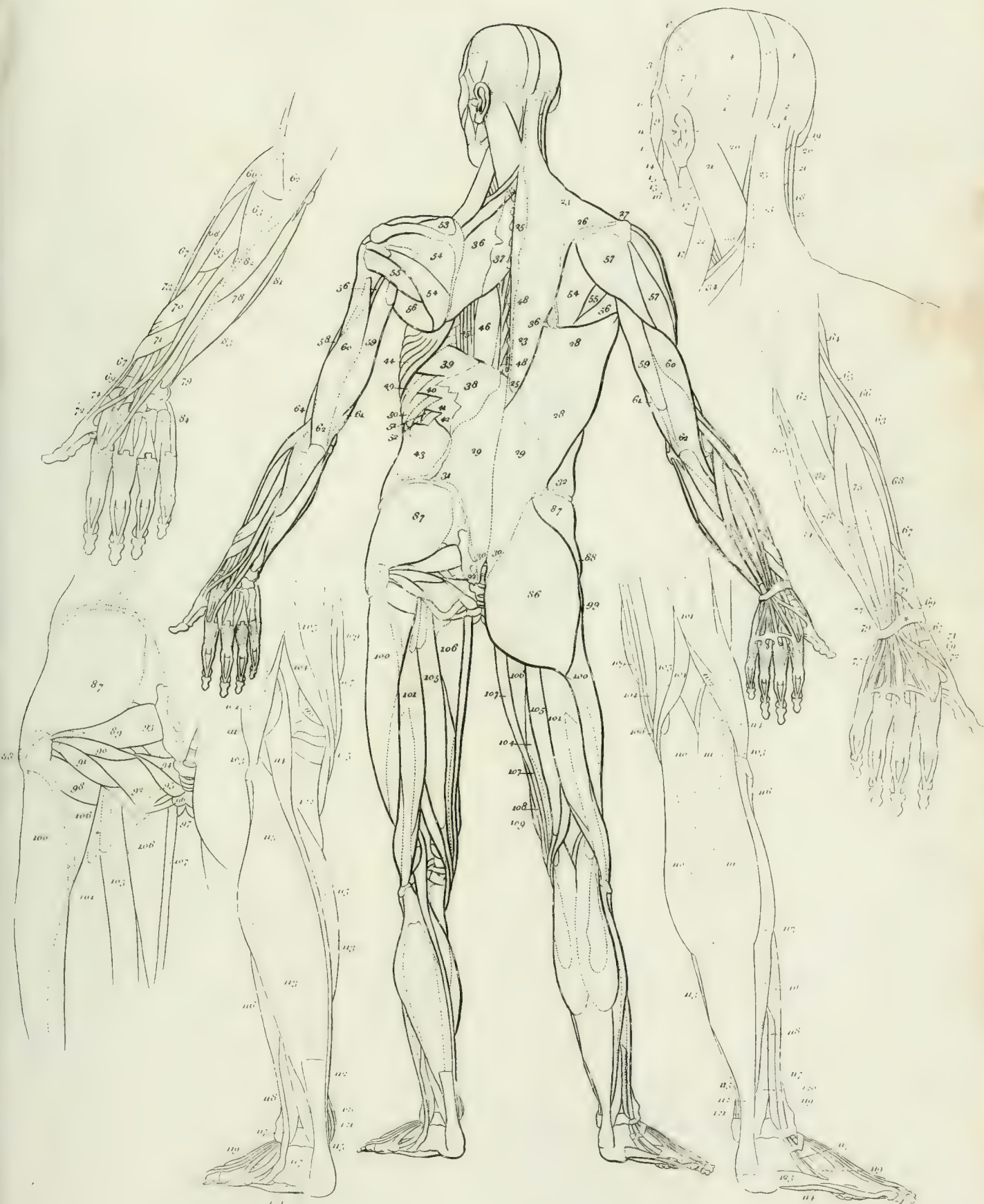
*Myology.*

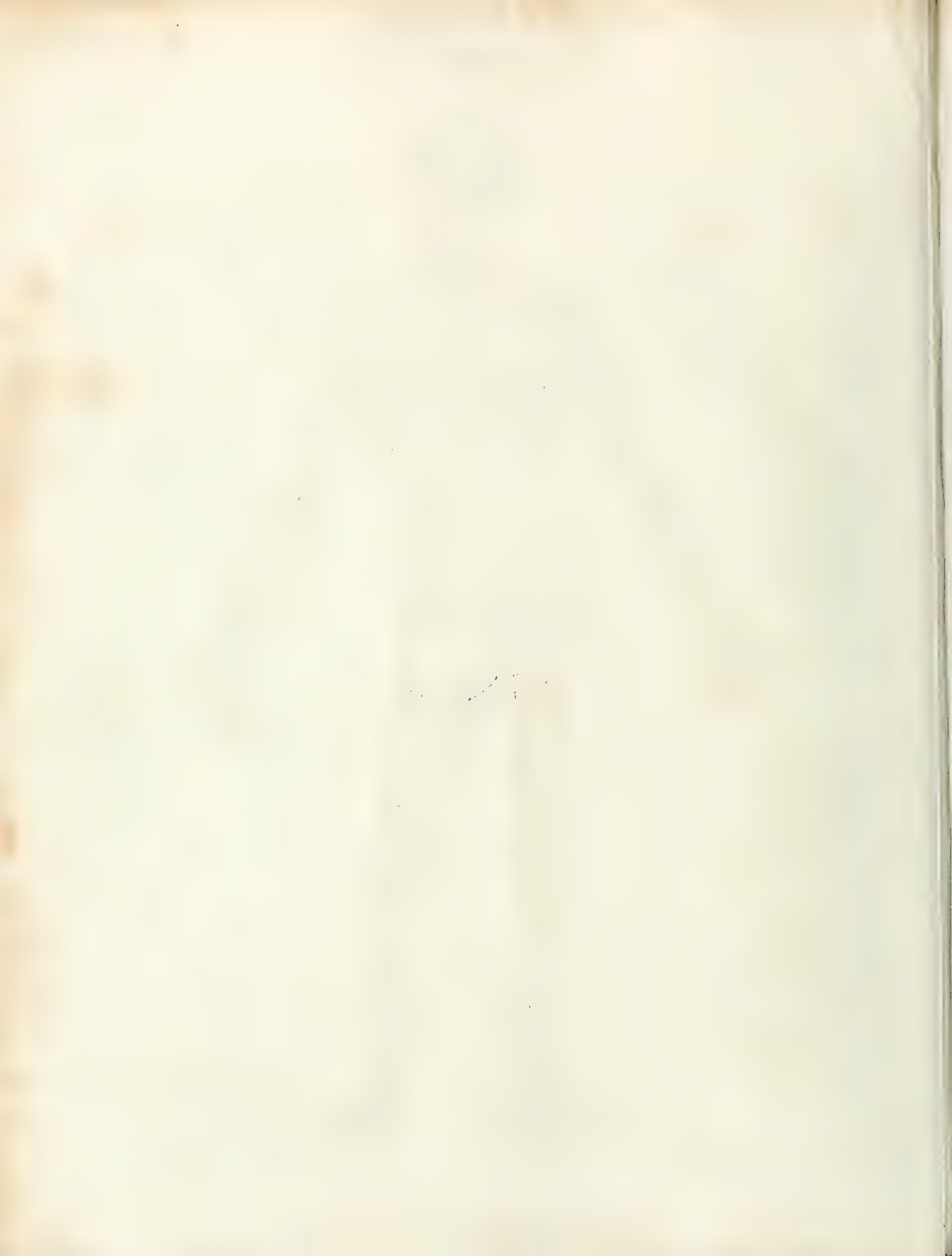




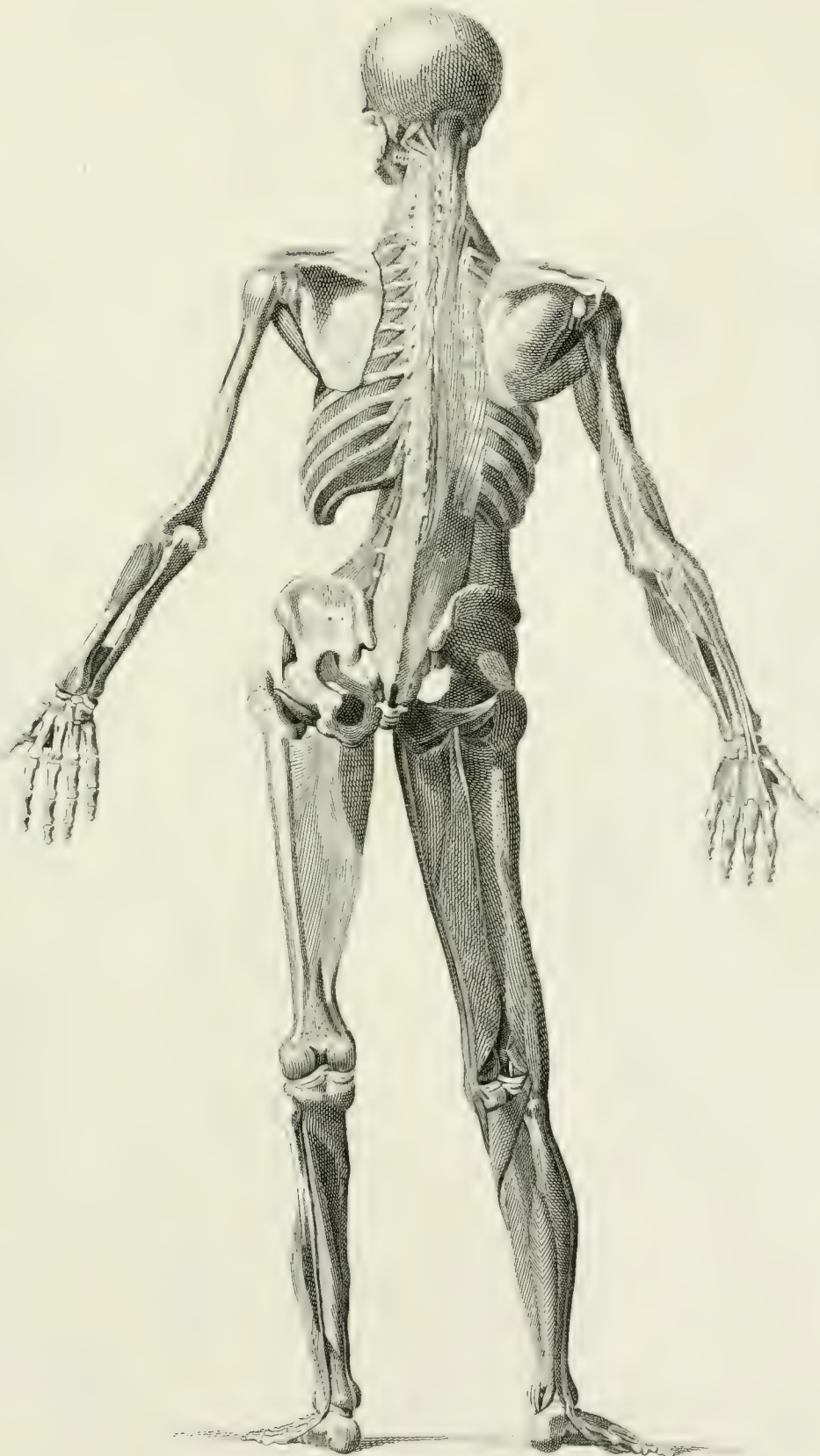


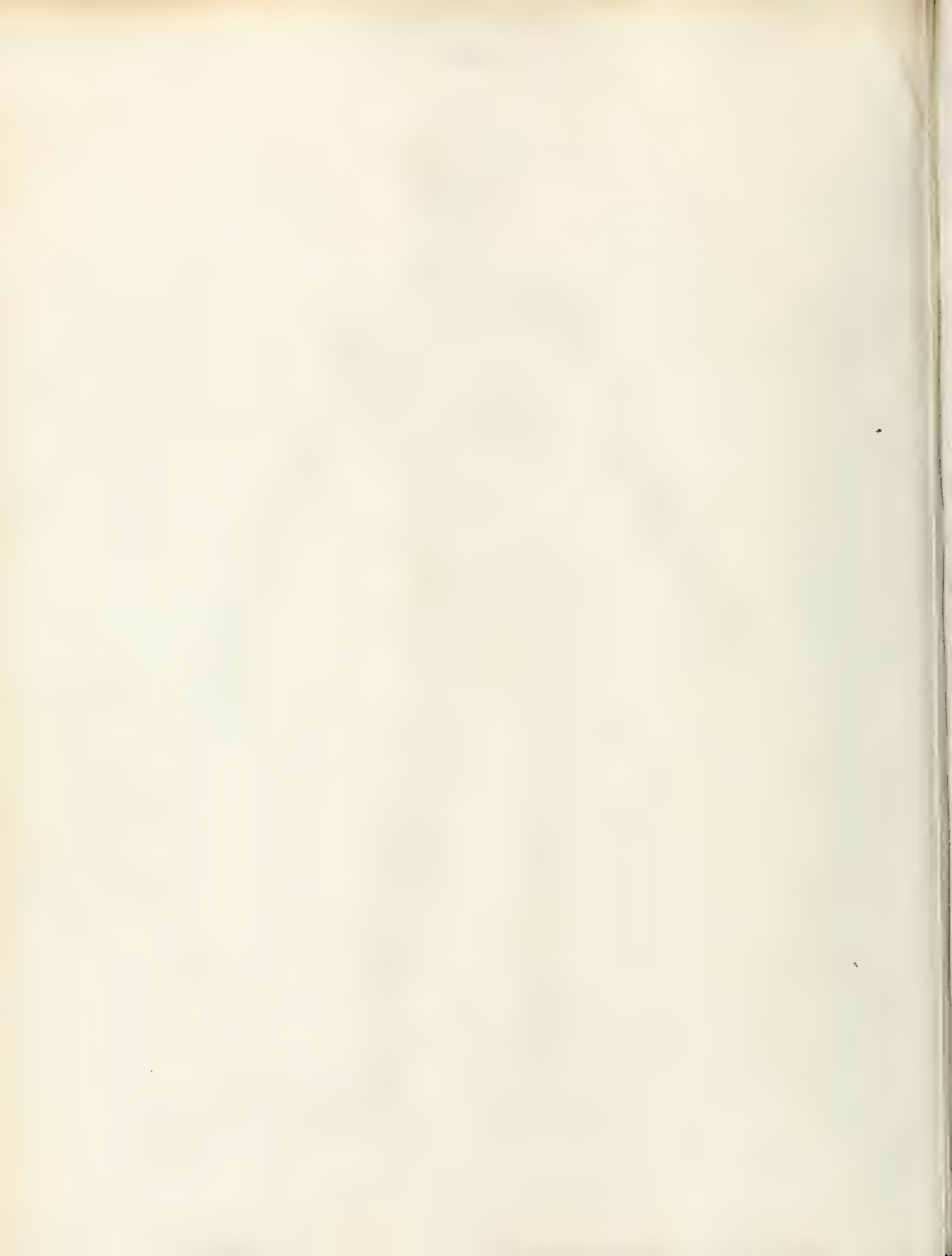
Myology.





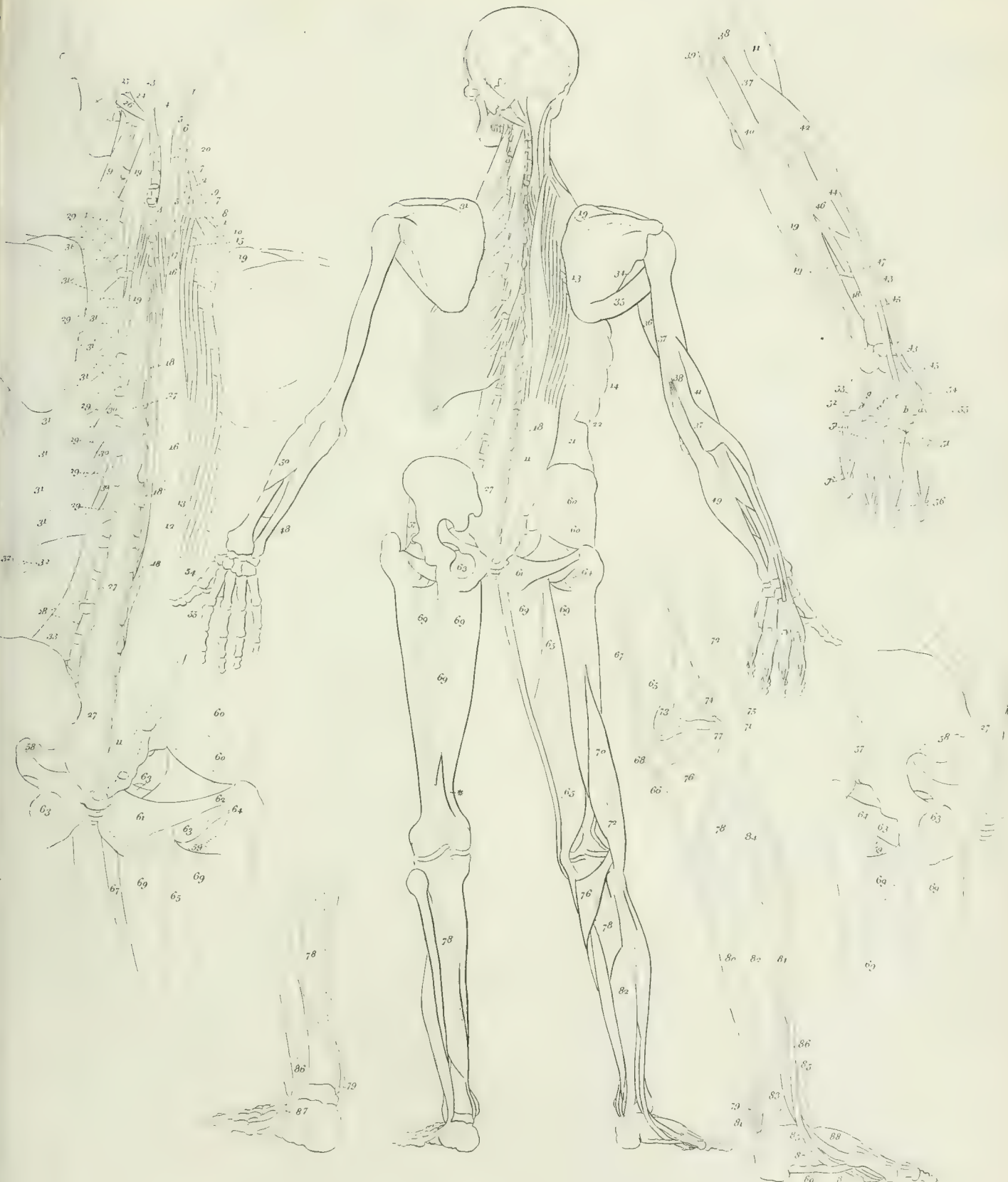
*Myology.*

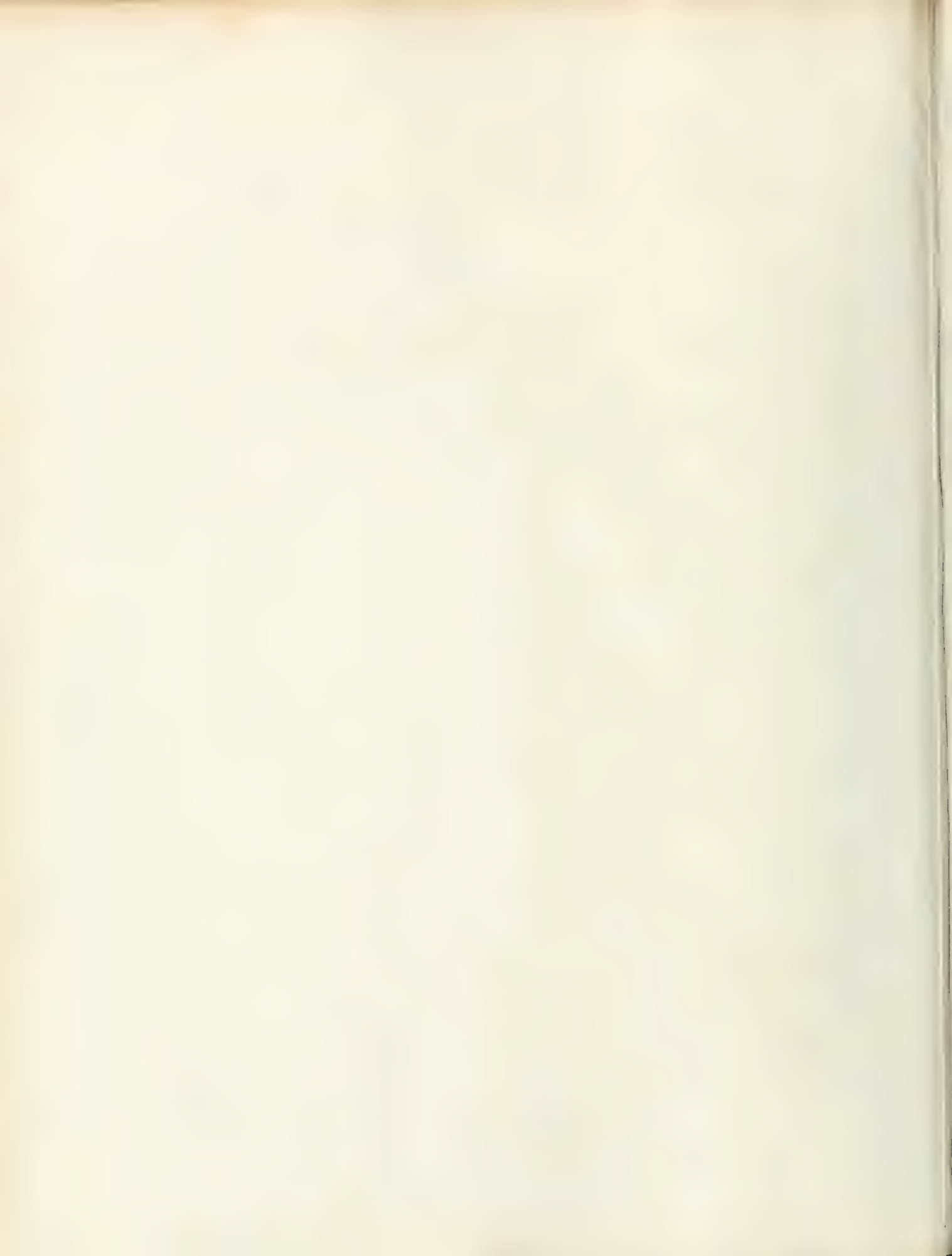






Myology.



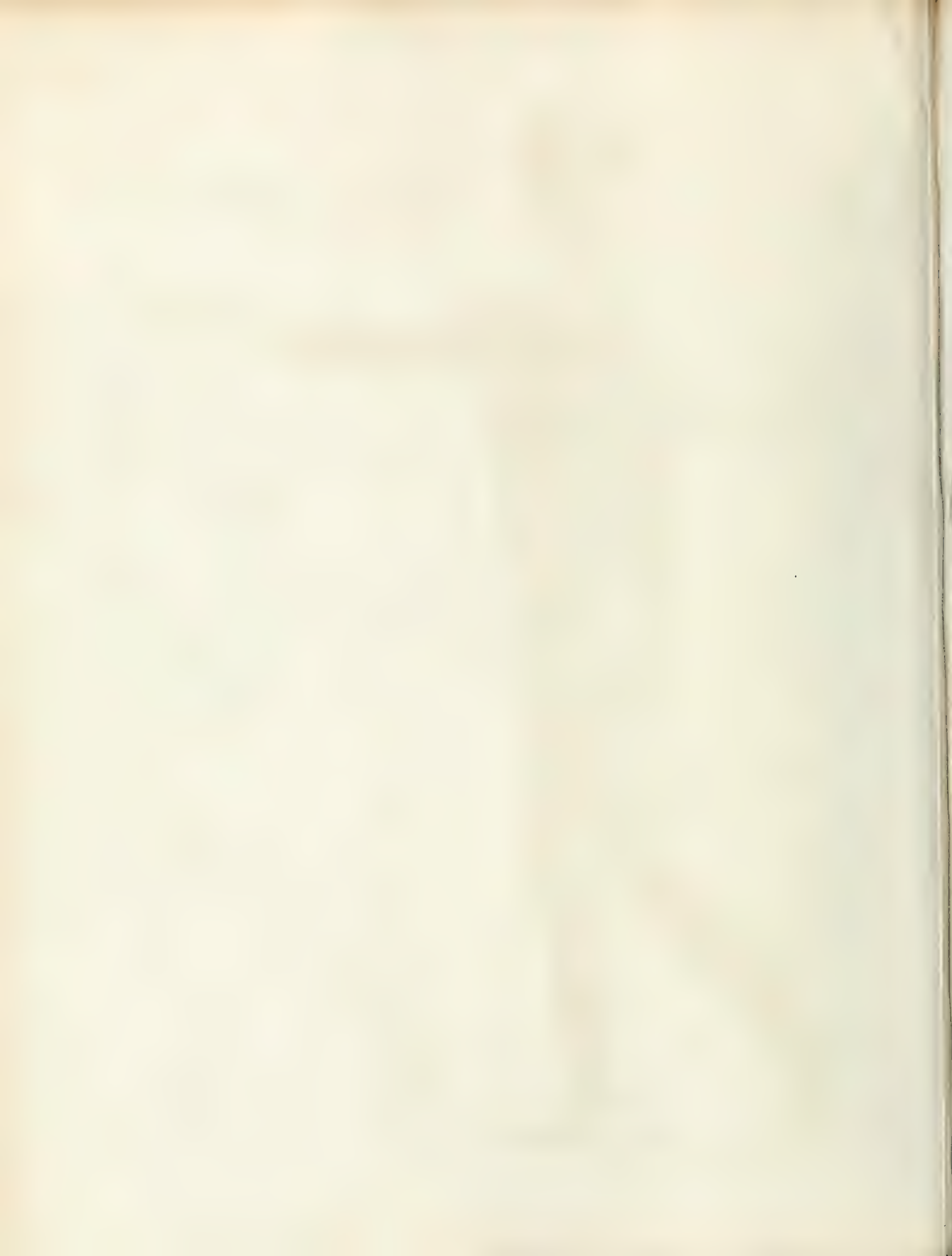


# ANATOMY

Myology.

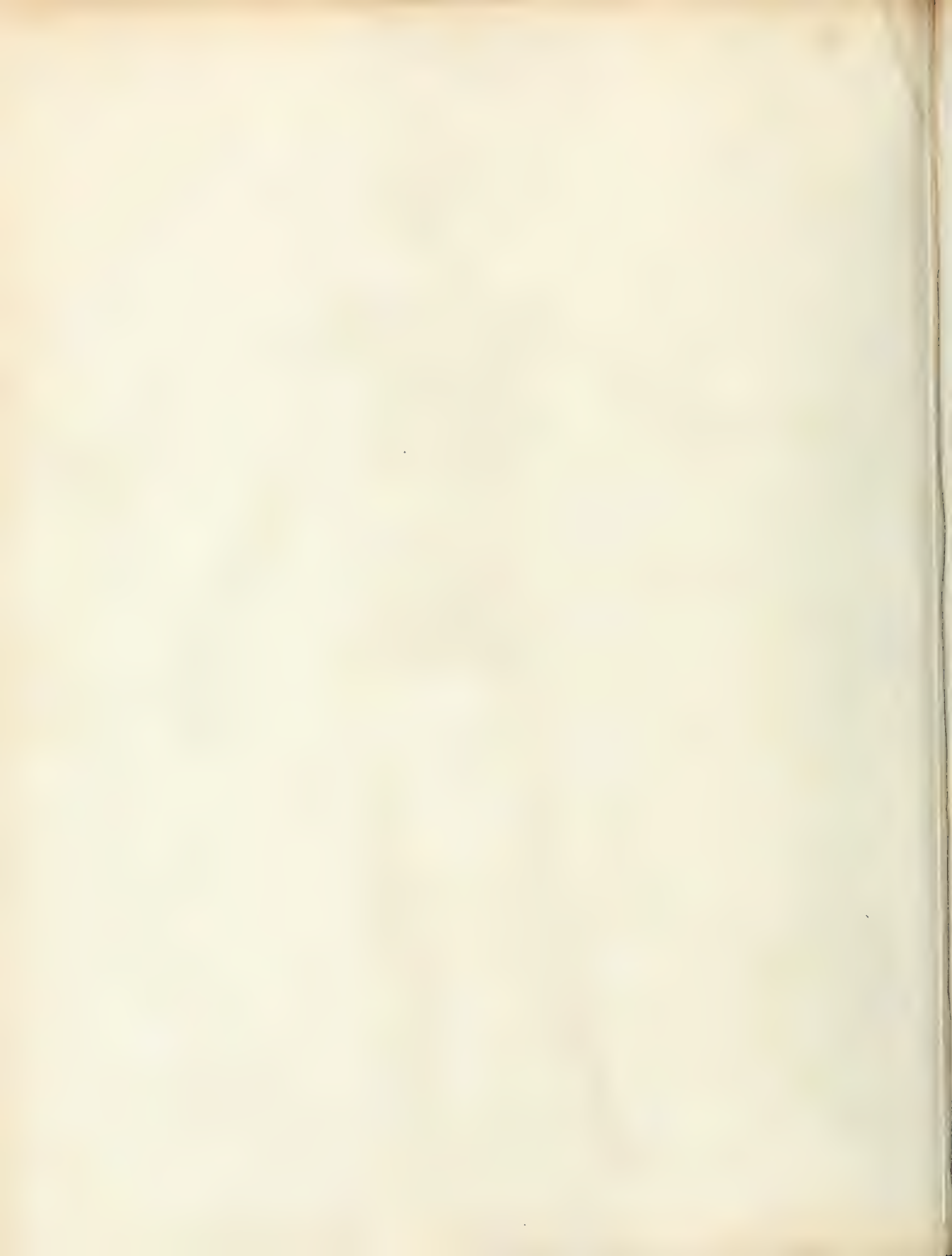
PLATE XVI









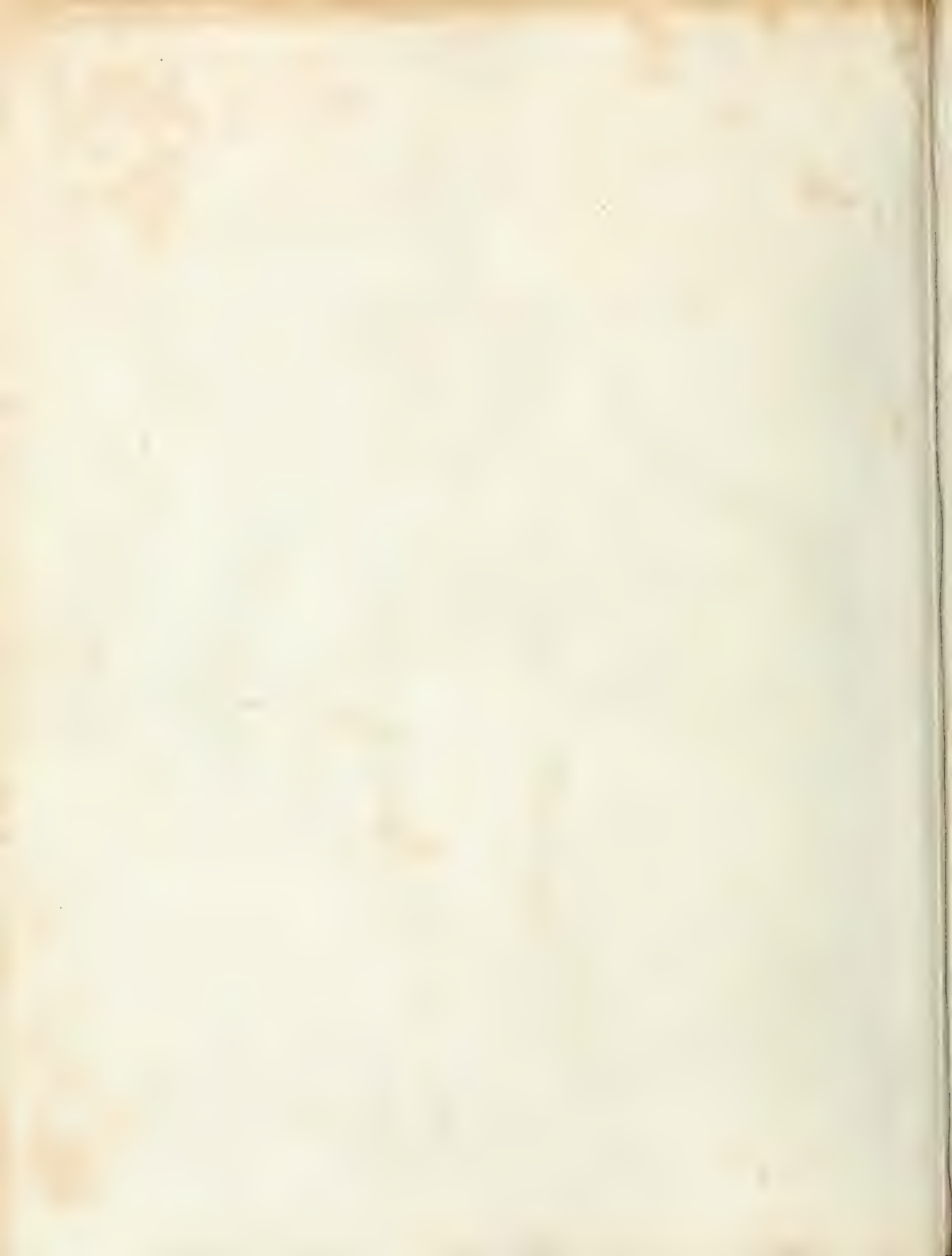


ANATOMY.

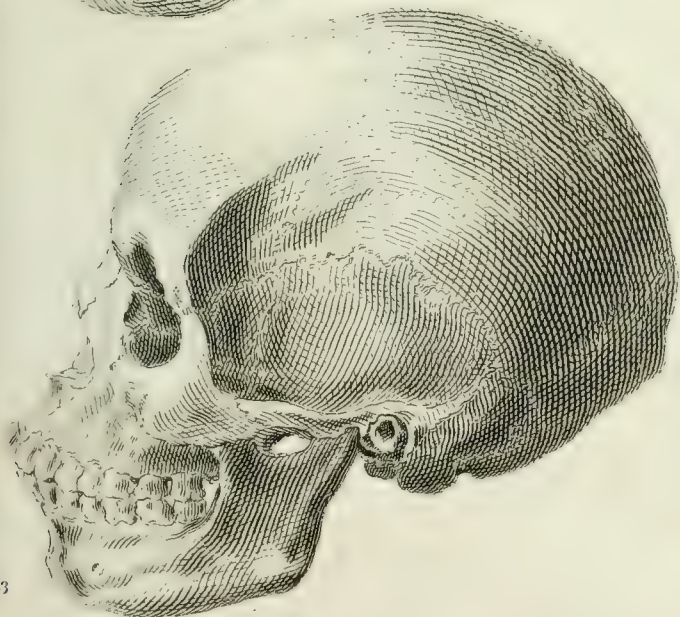
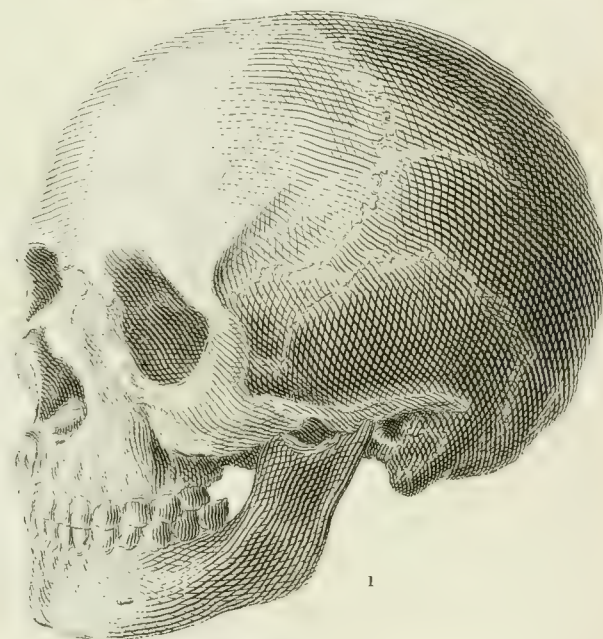
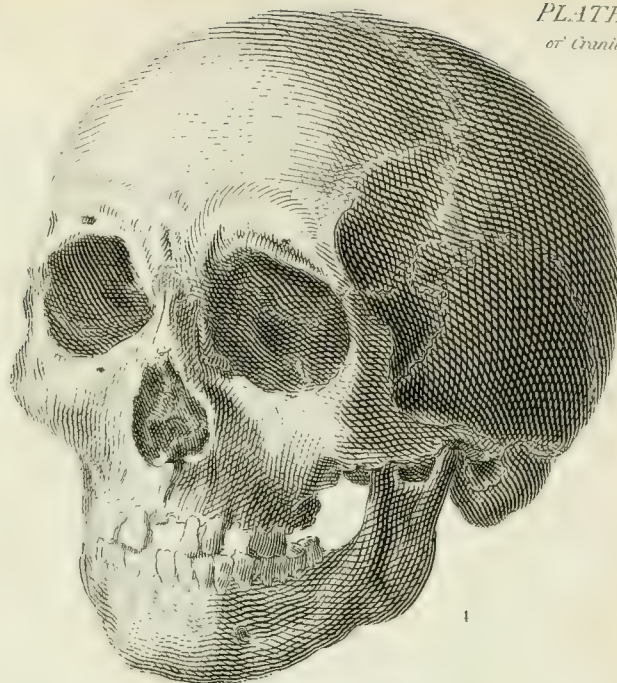
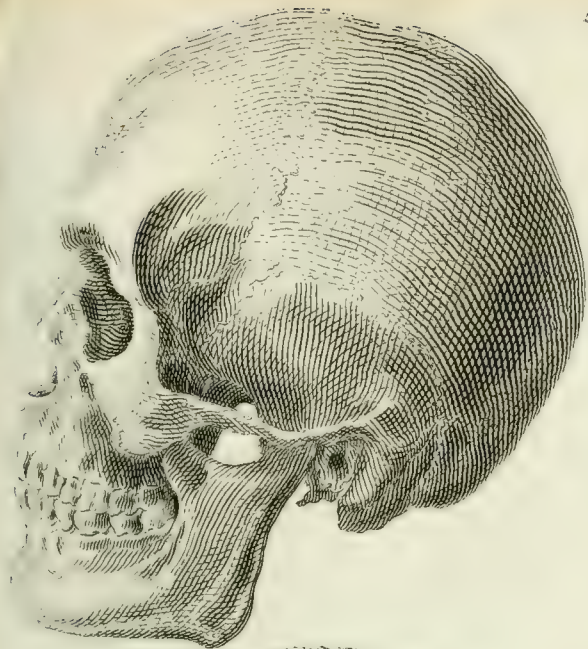
*Skeleton.  
Osteology.*

PLATE XVIII.

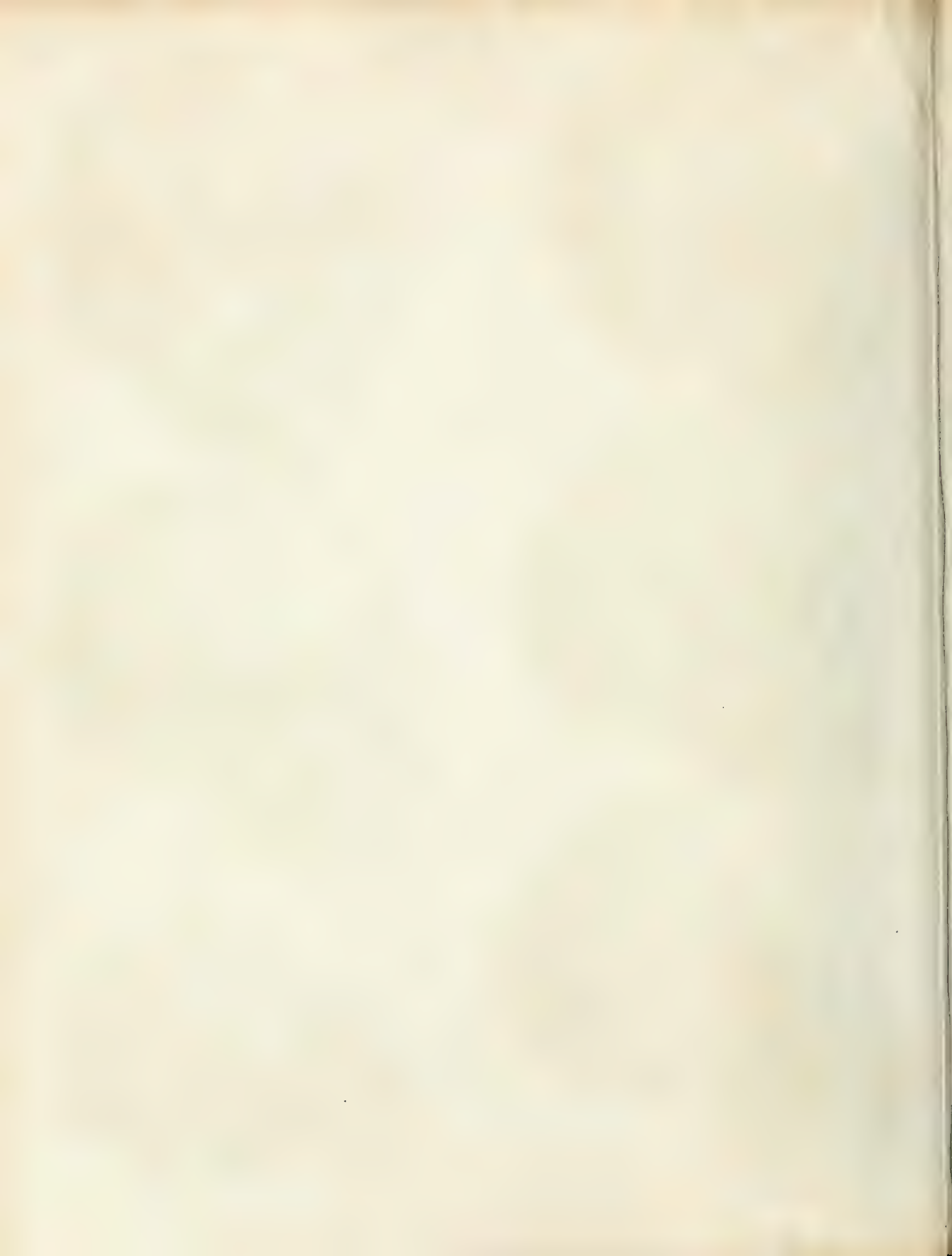




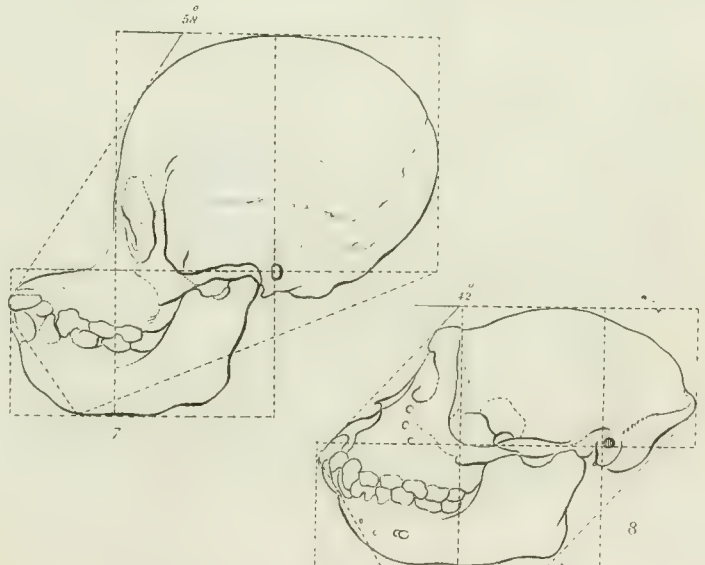
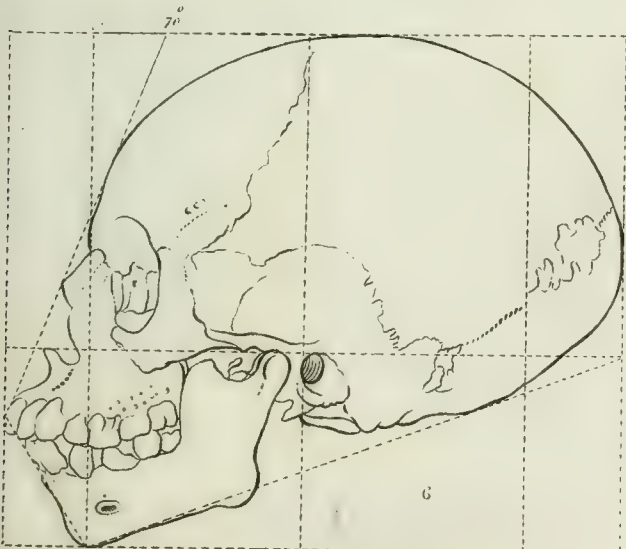
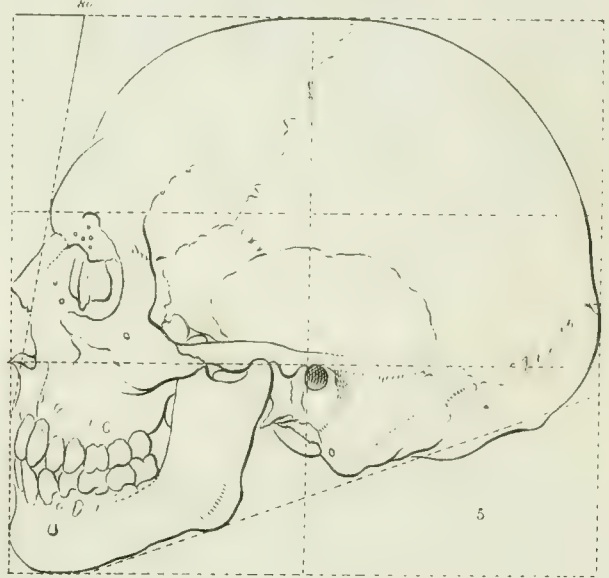
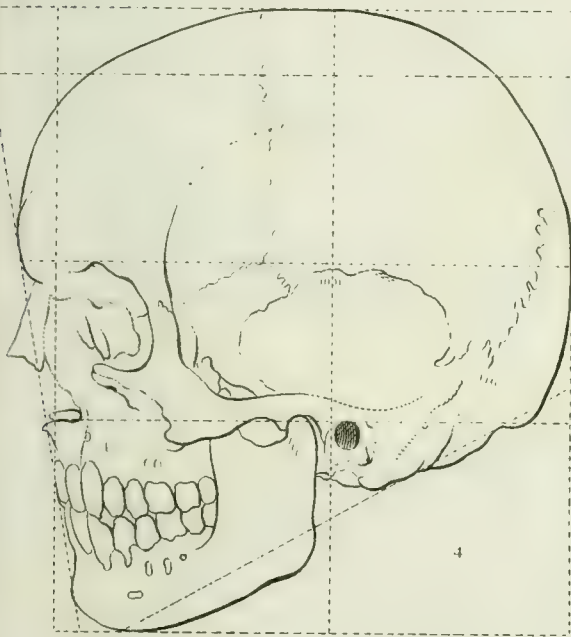
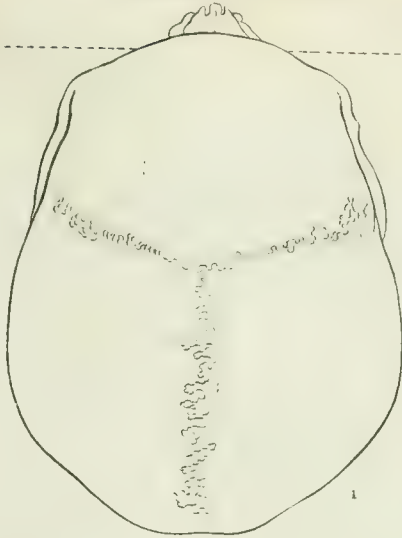
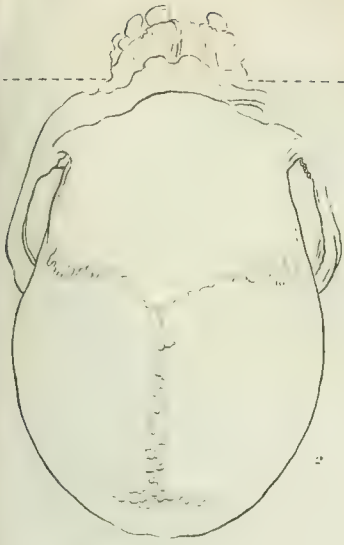




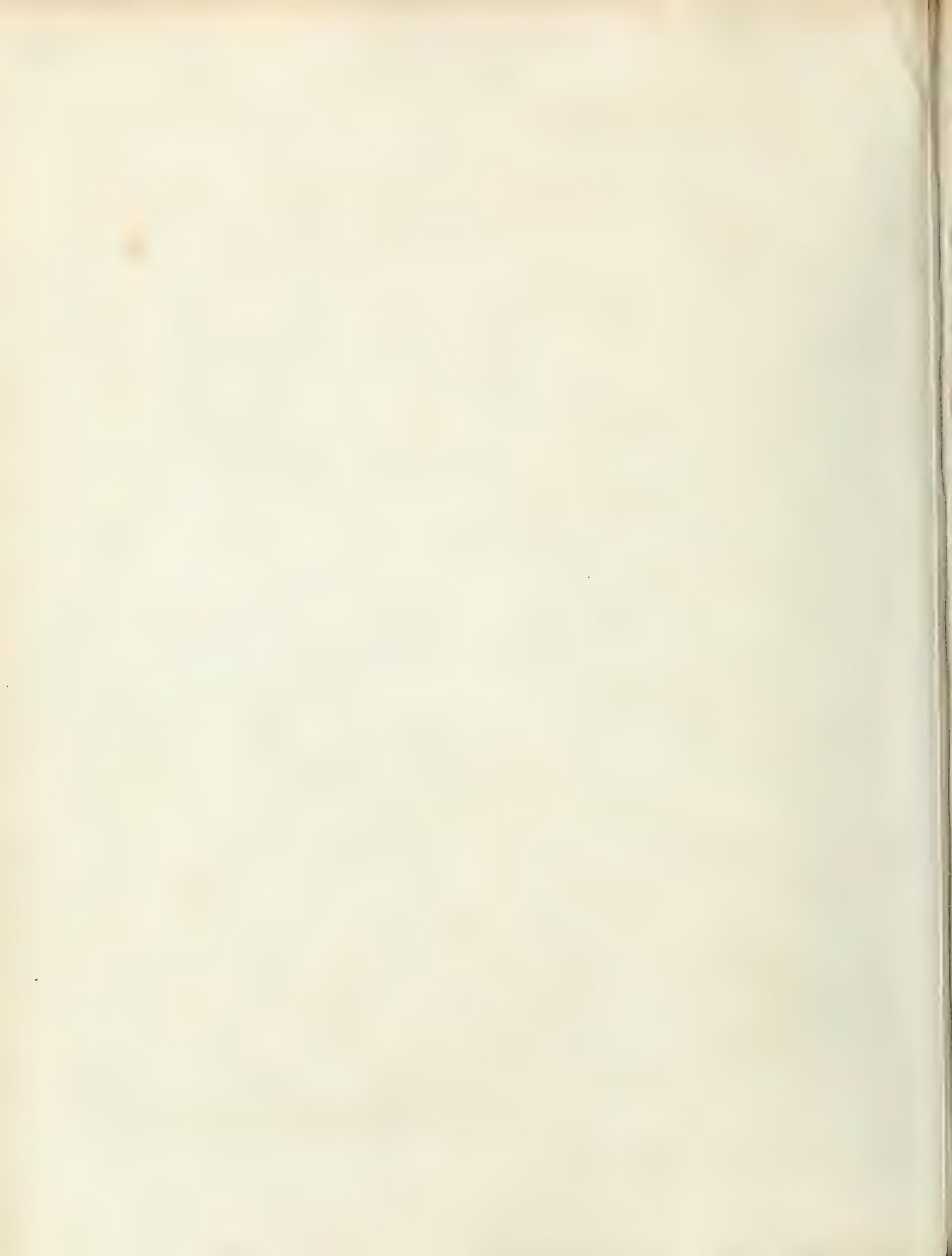
Georgian Female : Turk 3 Negro 4.Calmuck 5.6.Caribs







1. Georgian — 2. Negro — 3. Calmuck — 4. Antique — 5. European — 6. Negro — 7. Orang Outang — 8. Monkey.





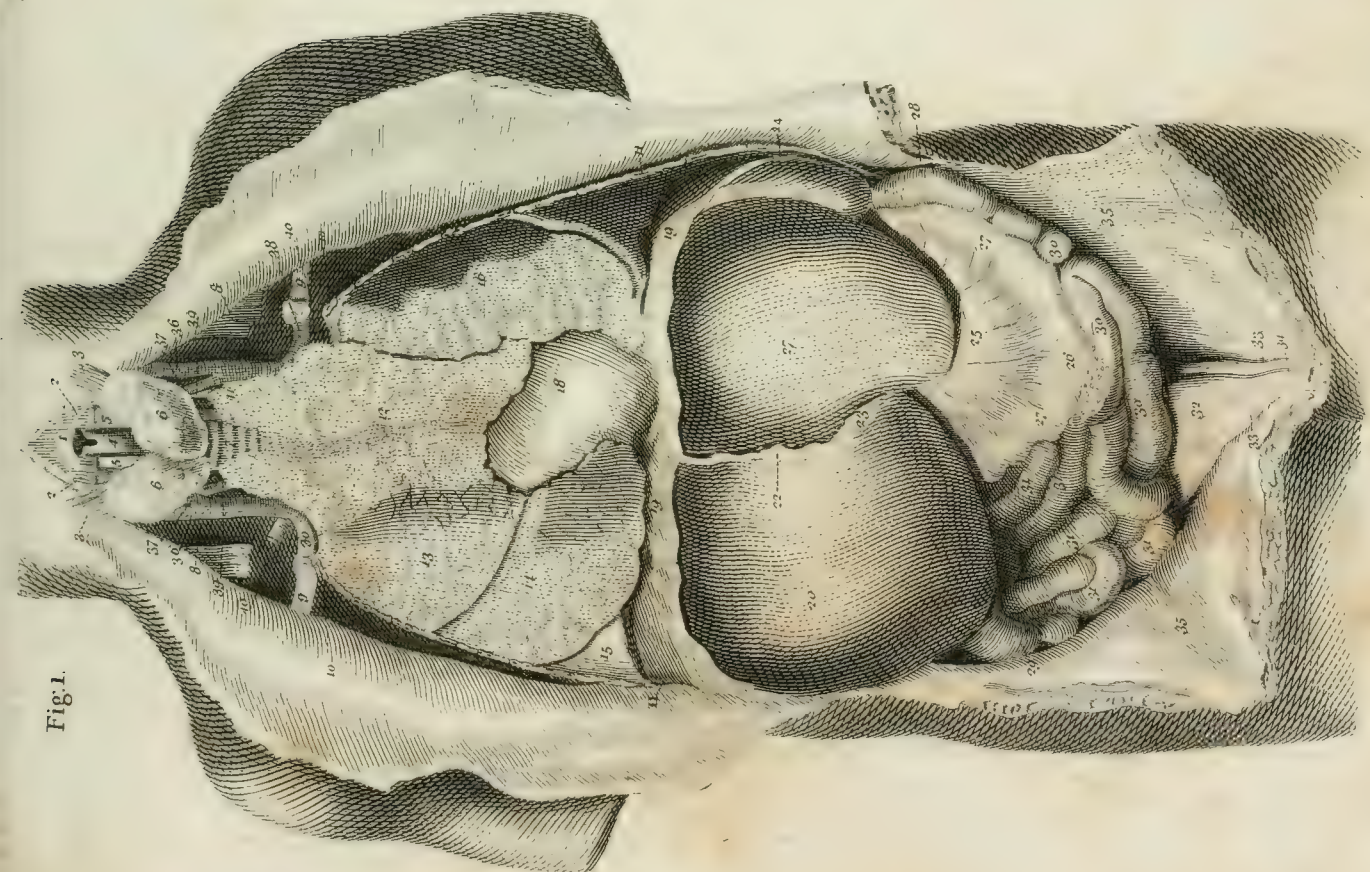


Fig. 1.

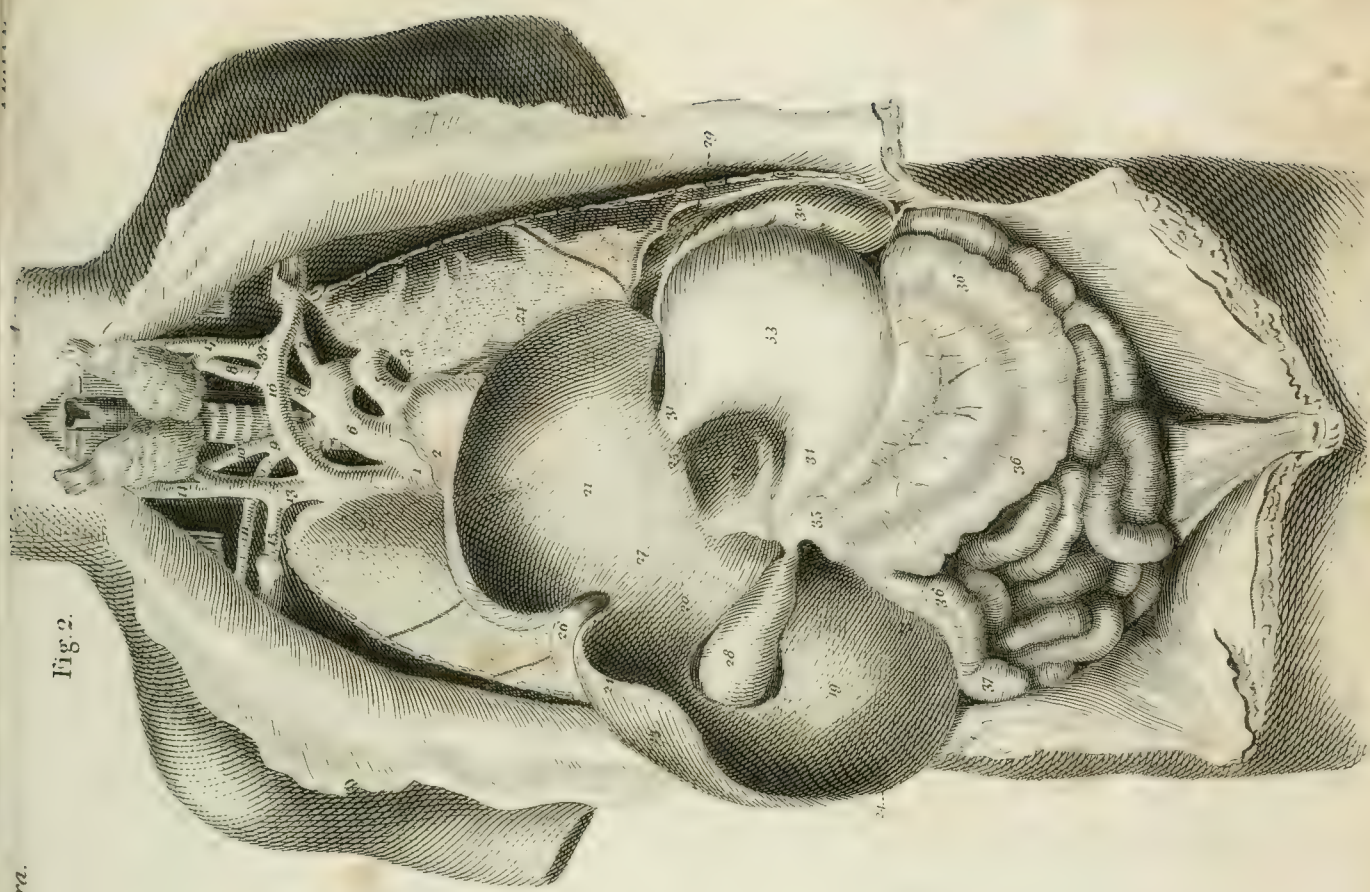


Fig. 2.

*Viscera.*





Fig 1

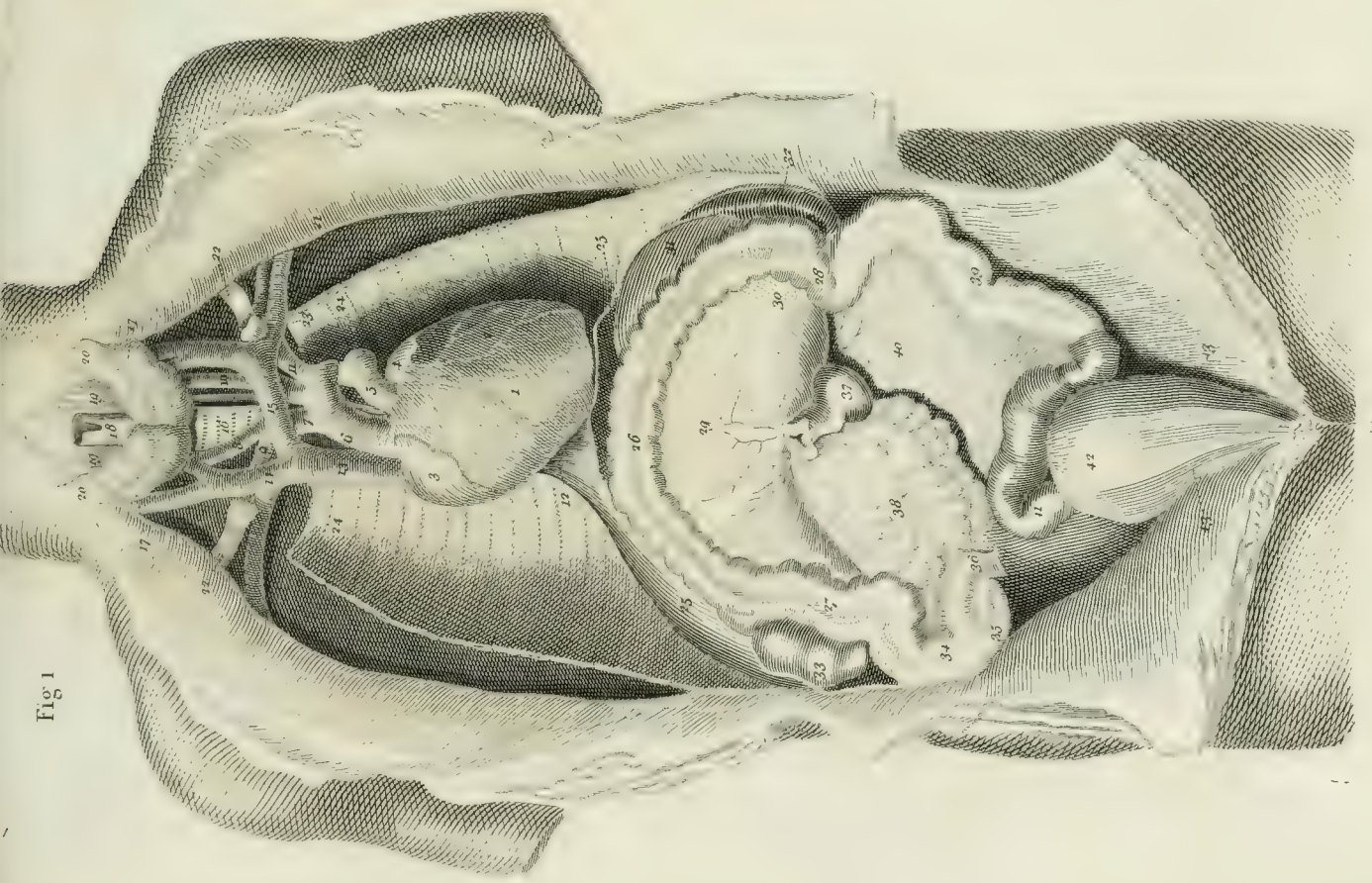


Fig. 2.

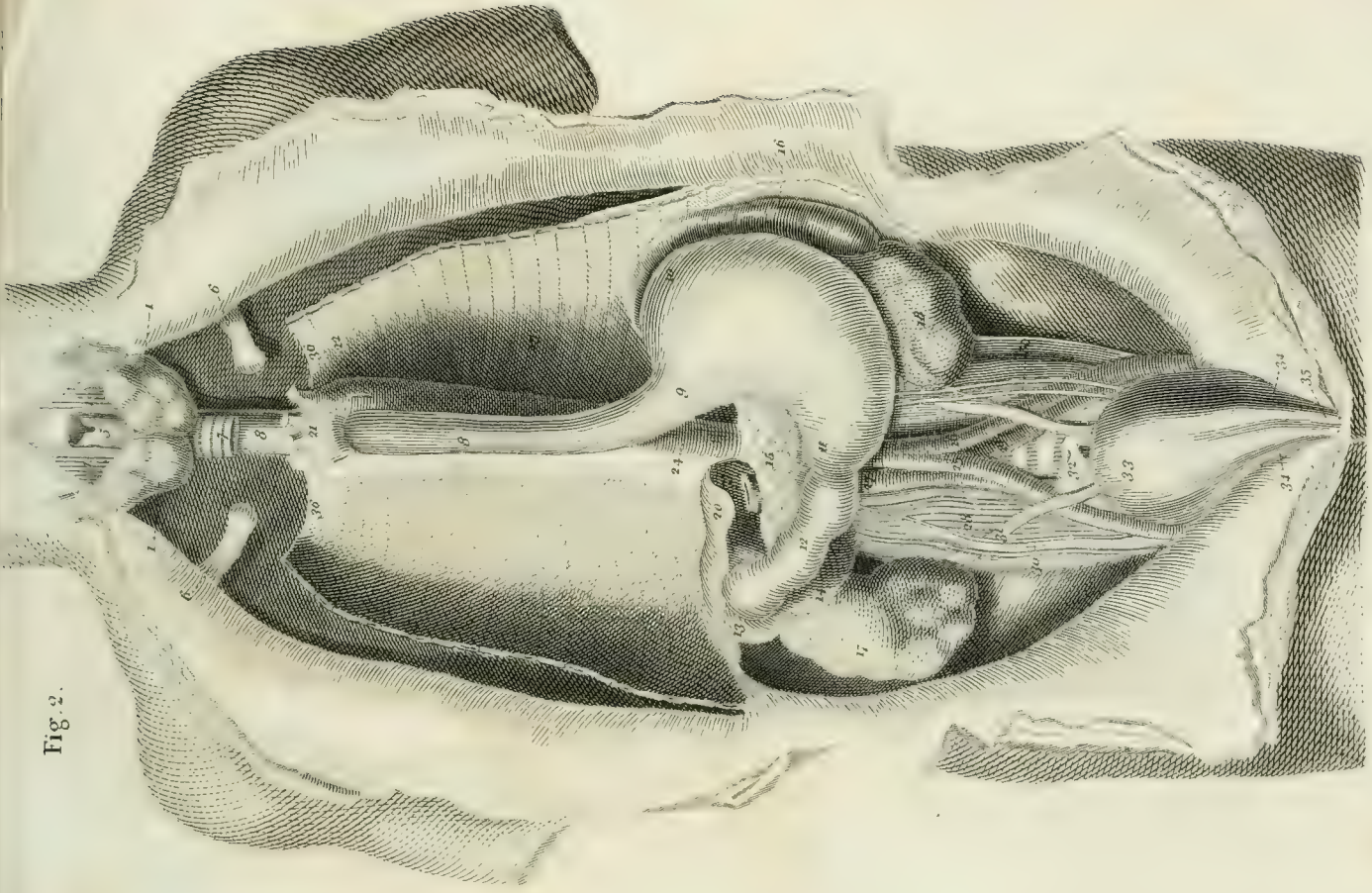






Fig. 1

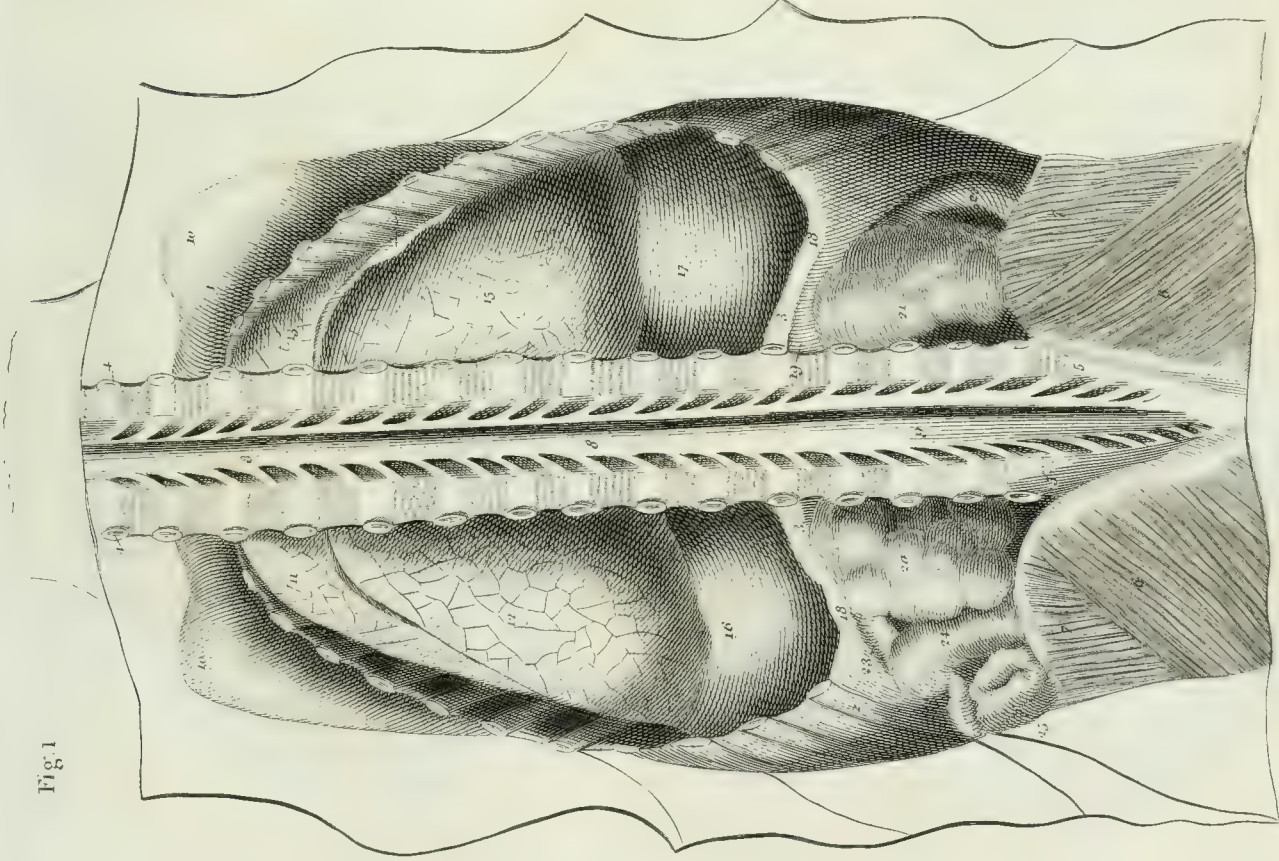
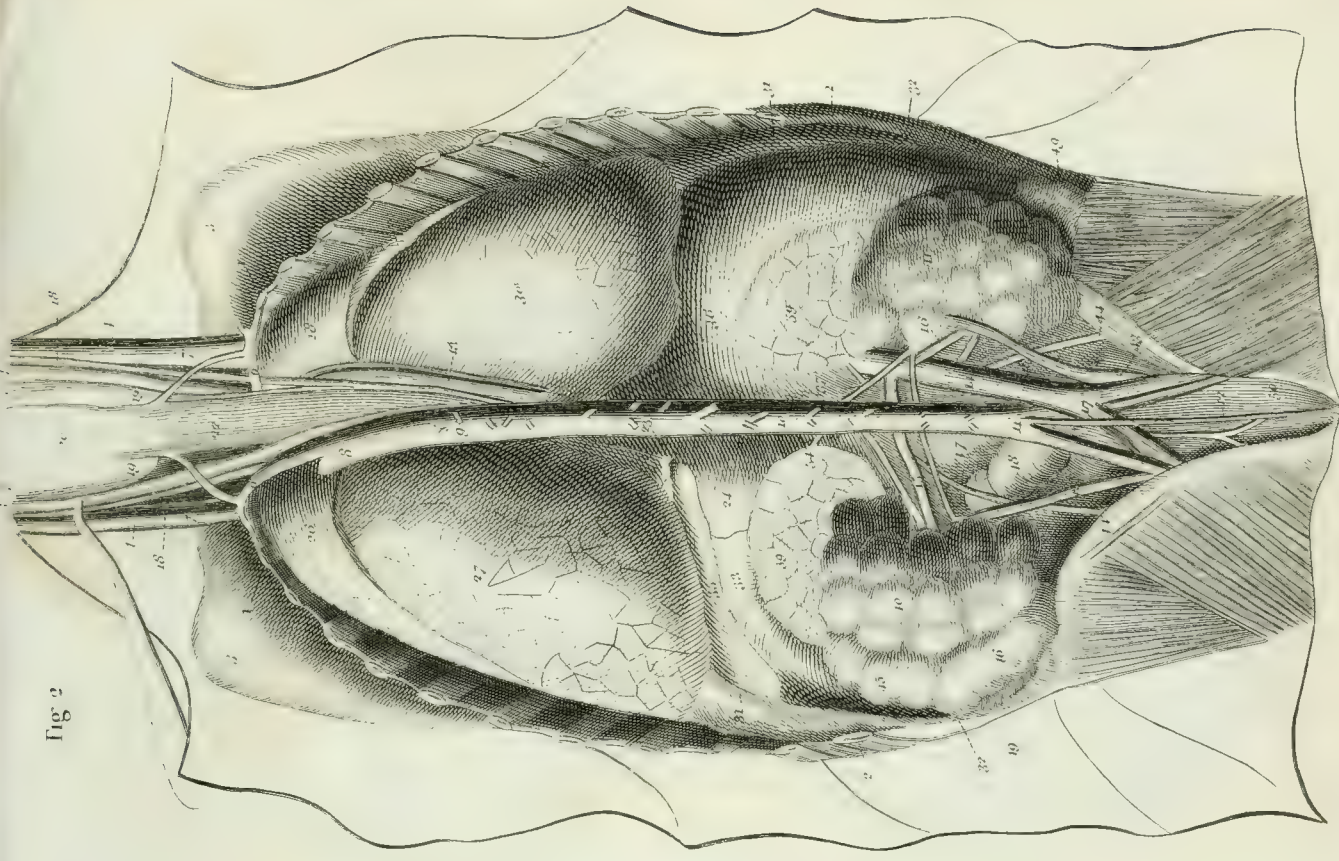
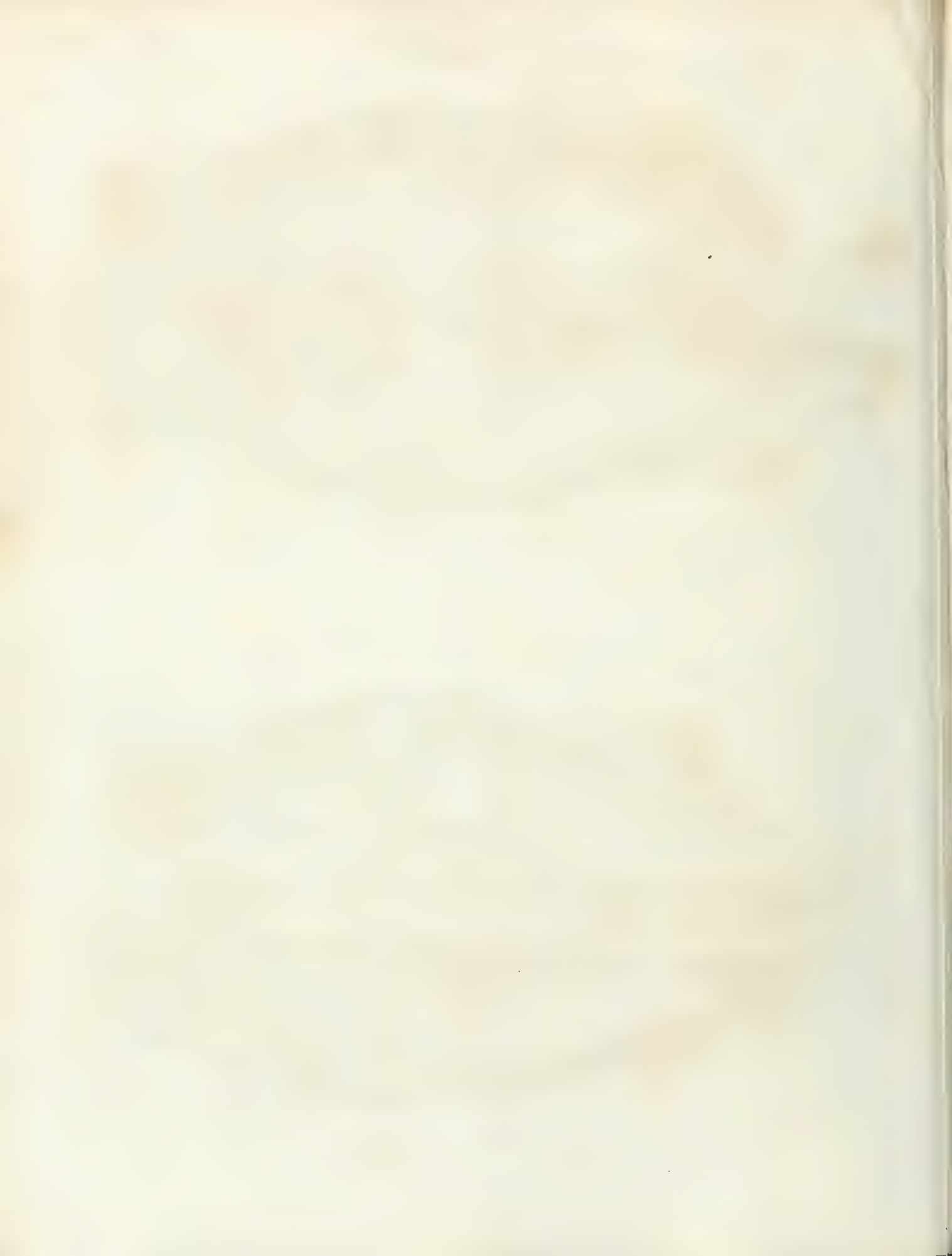


Fig. 2

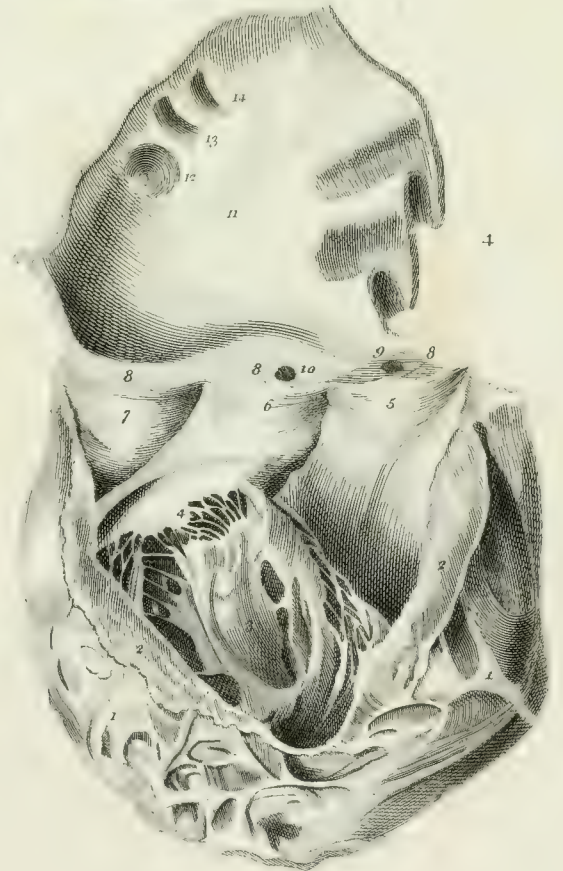
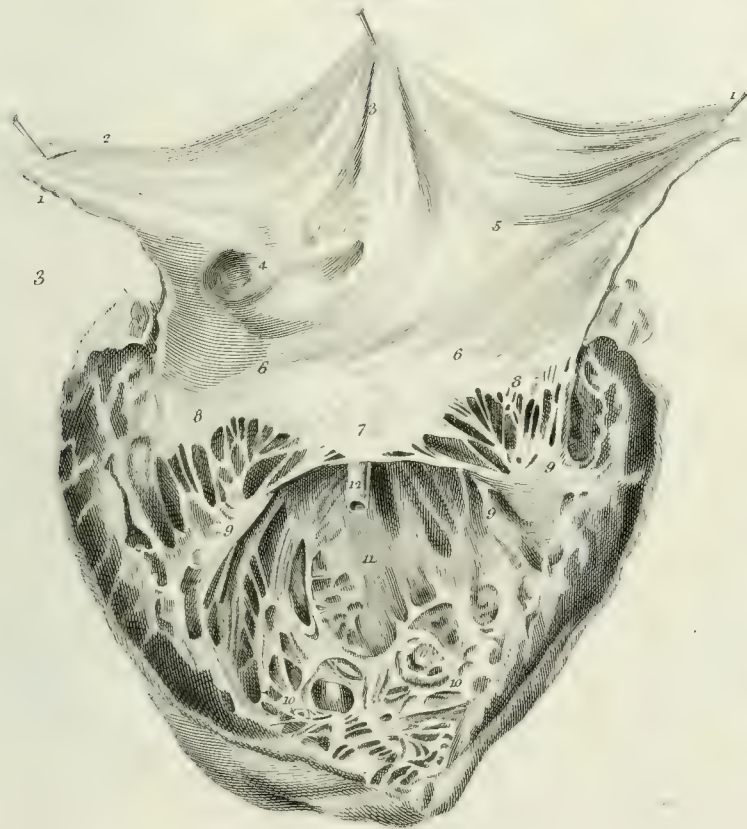
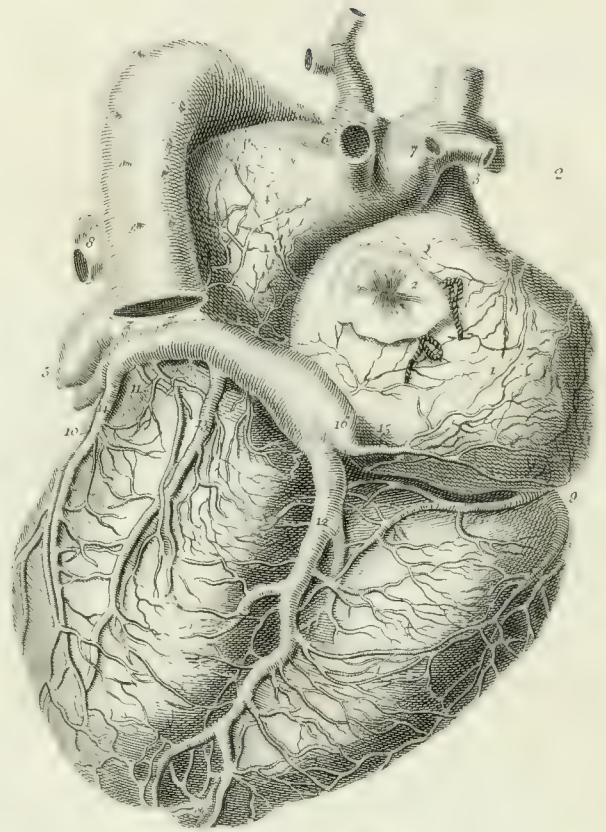
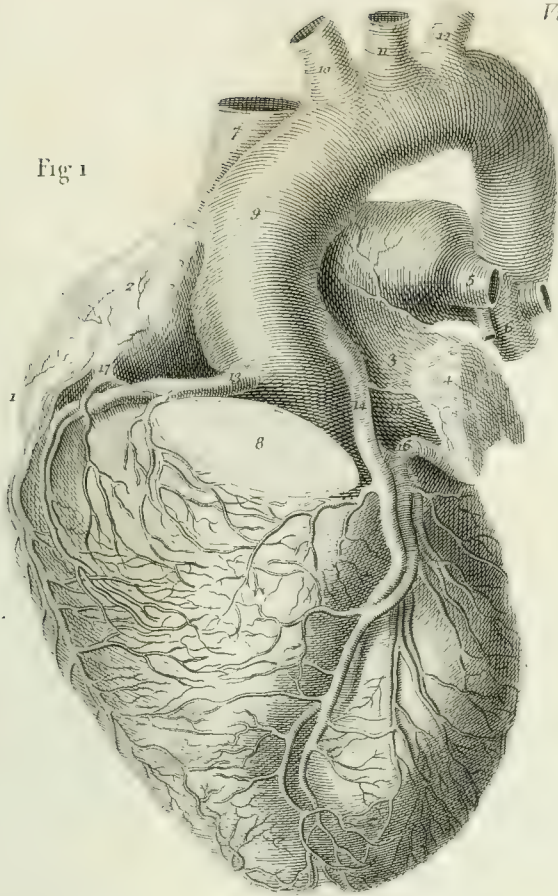






Viscera.

Fig 1







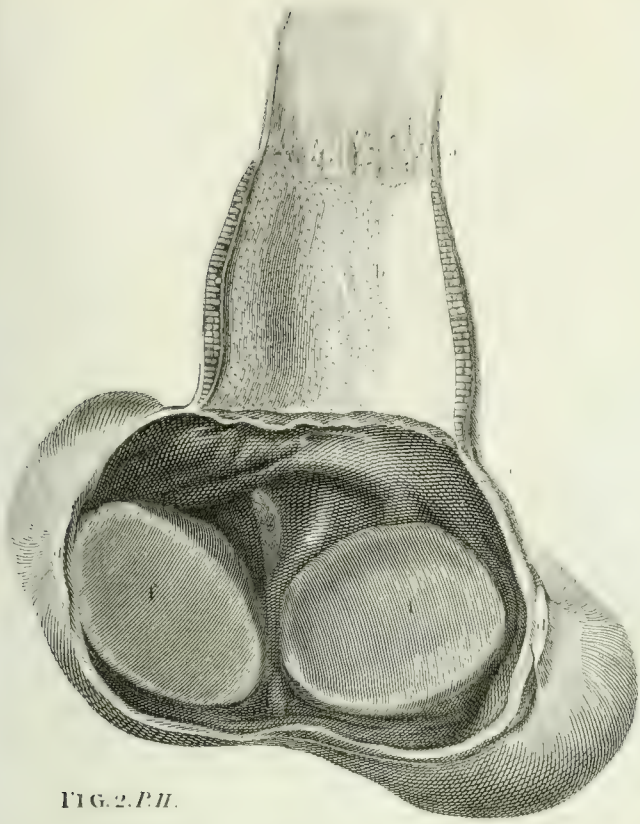


FIG. 2. *PII.*

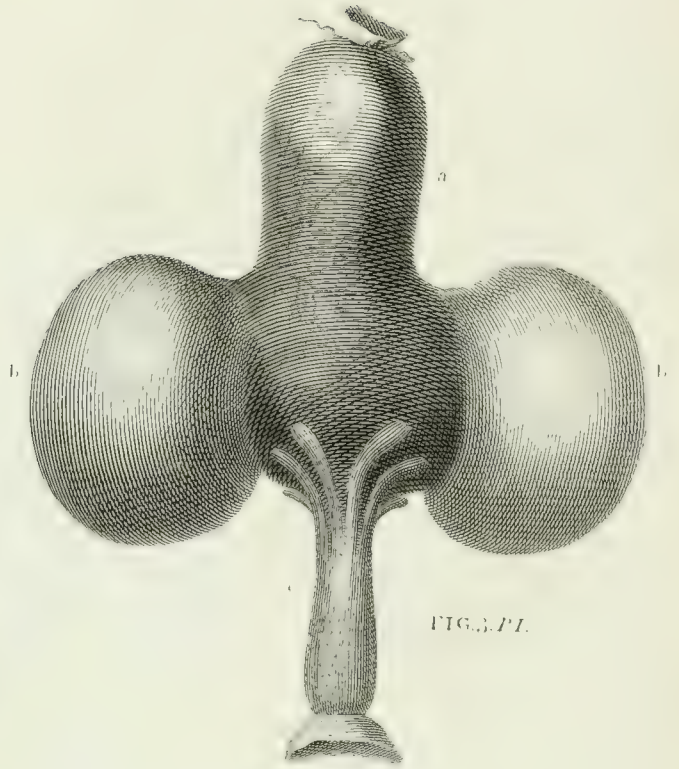


FIG. 3. *PI.*



FIG. 2. *PI.*



FIG. 1. *PI.*

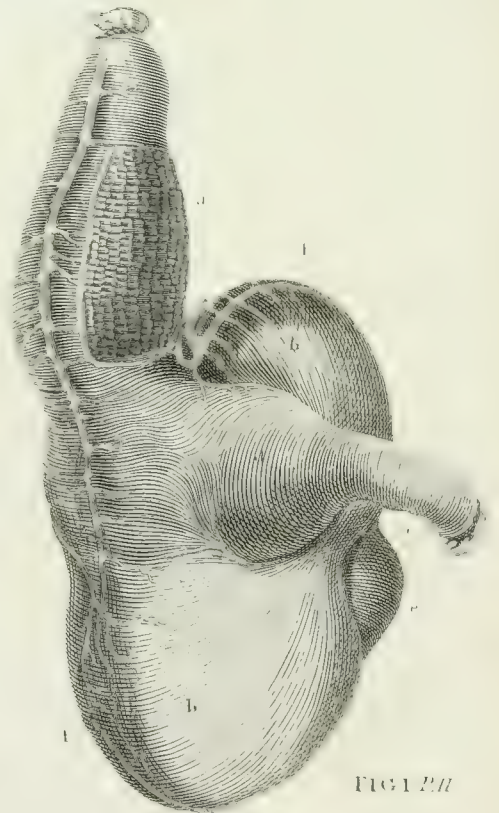


FIG. 1. *PII.*

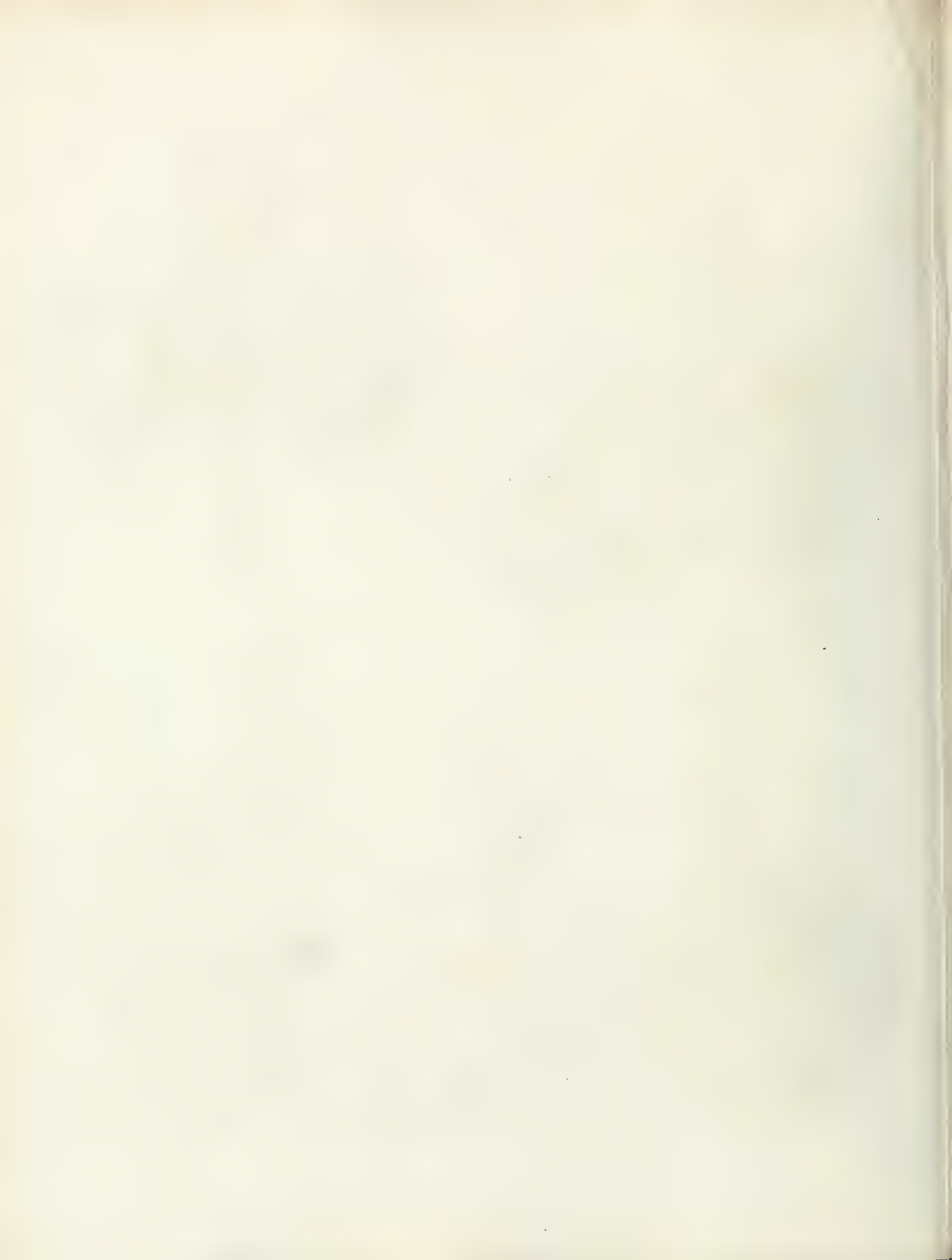


FIG. I.

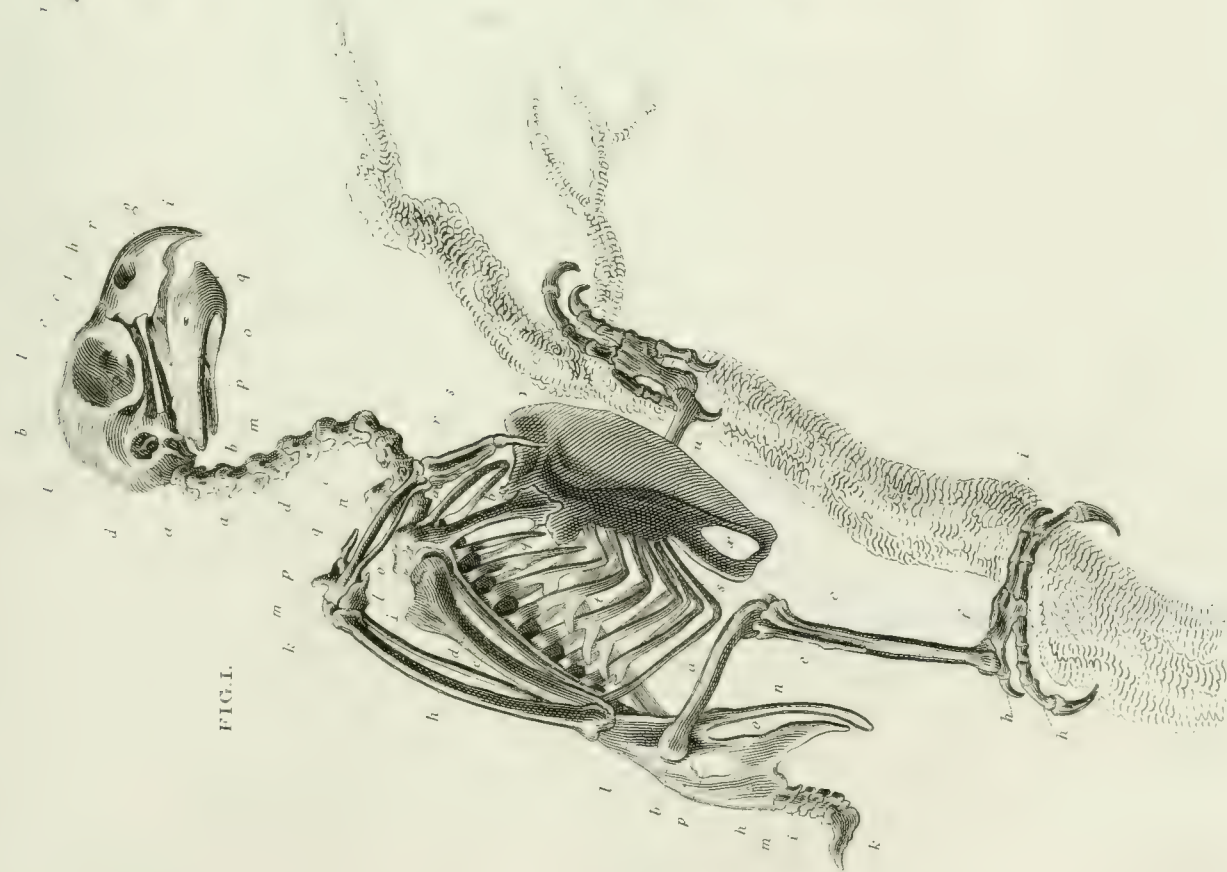
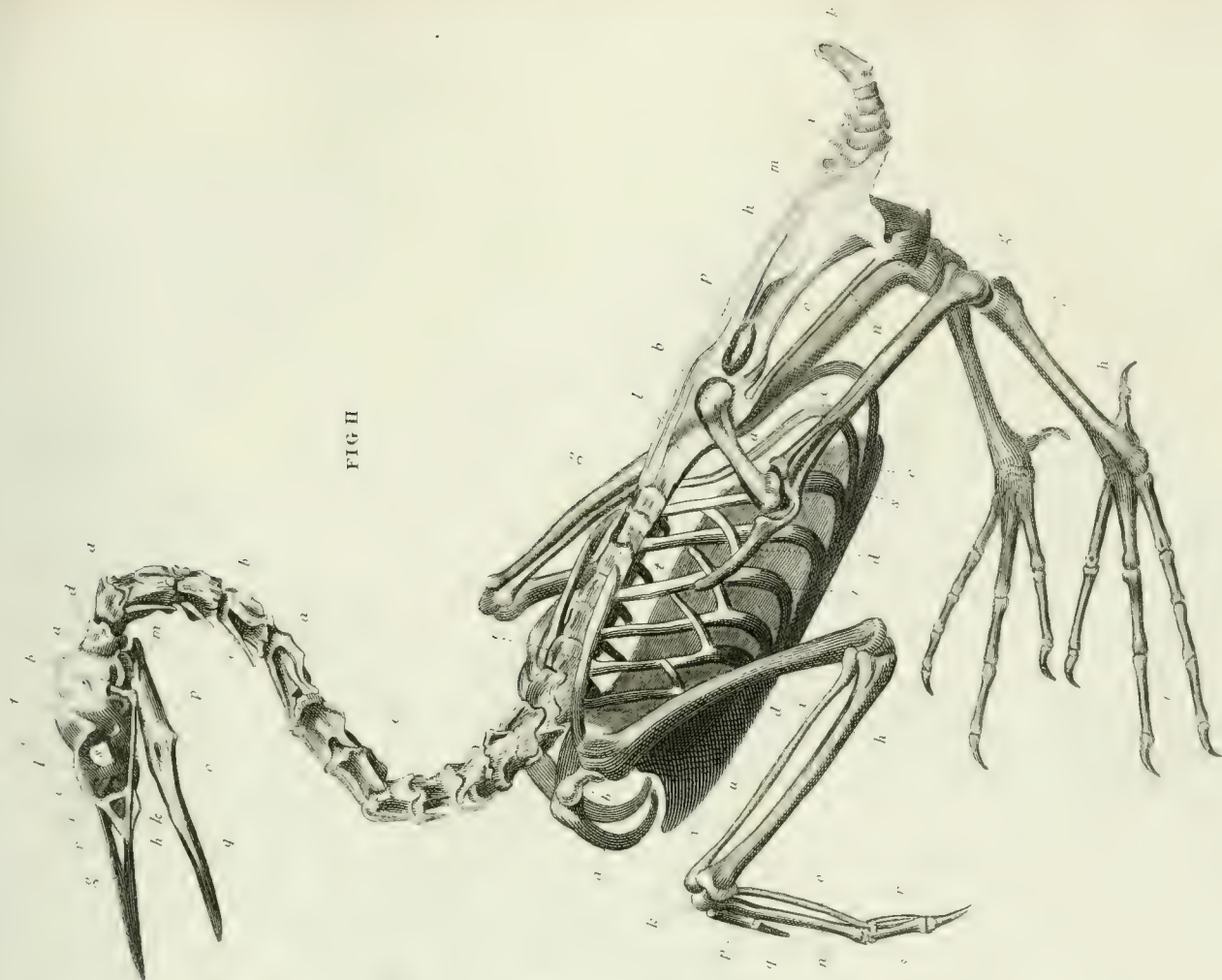


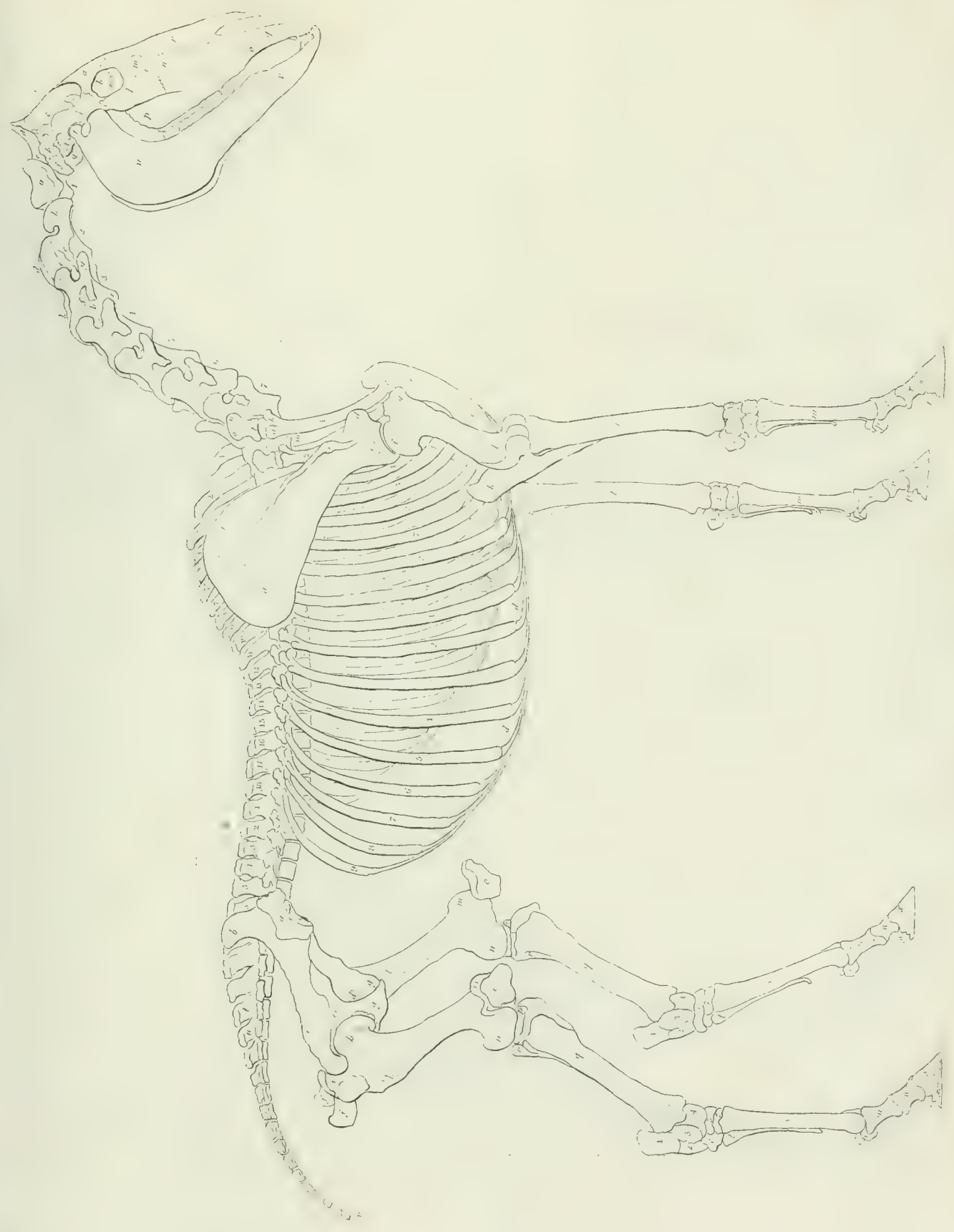
FIG. II.



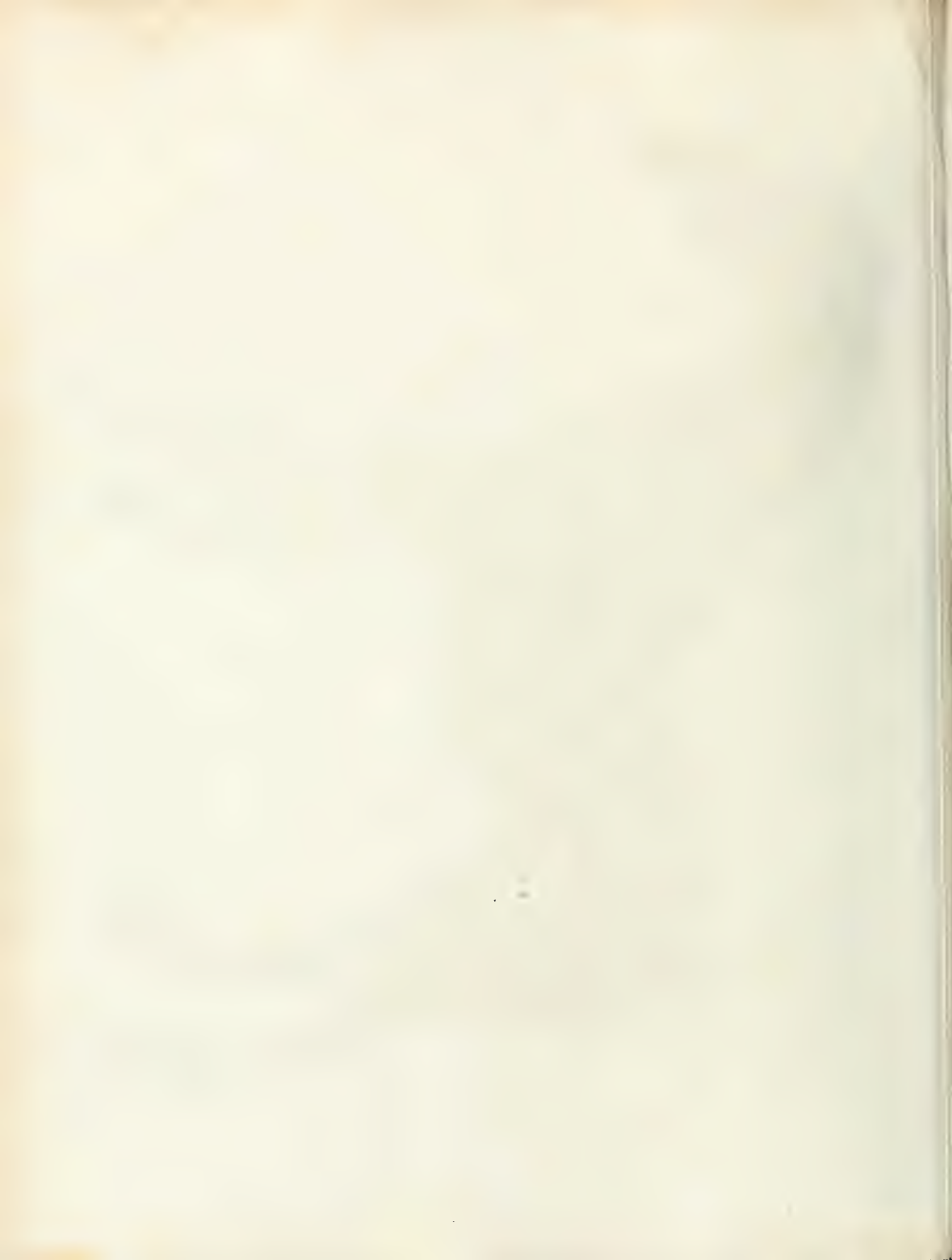






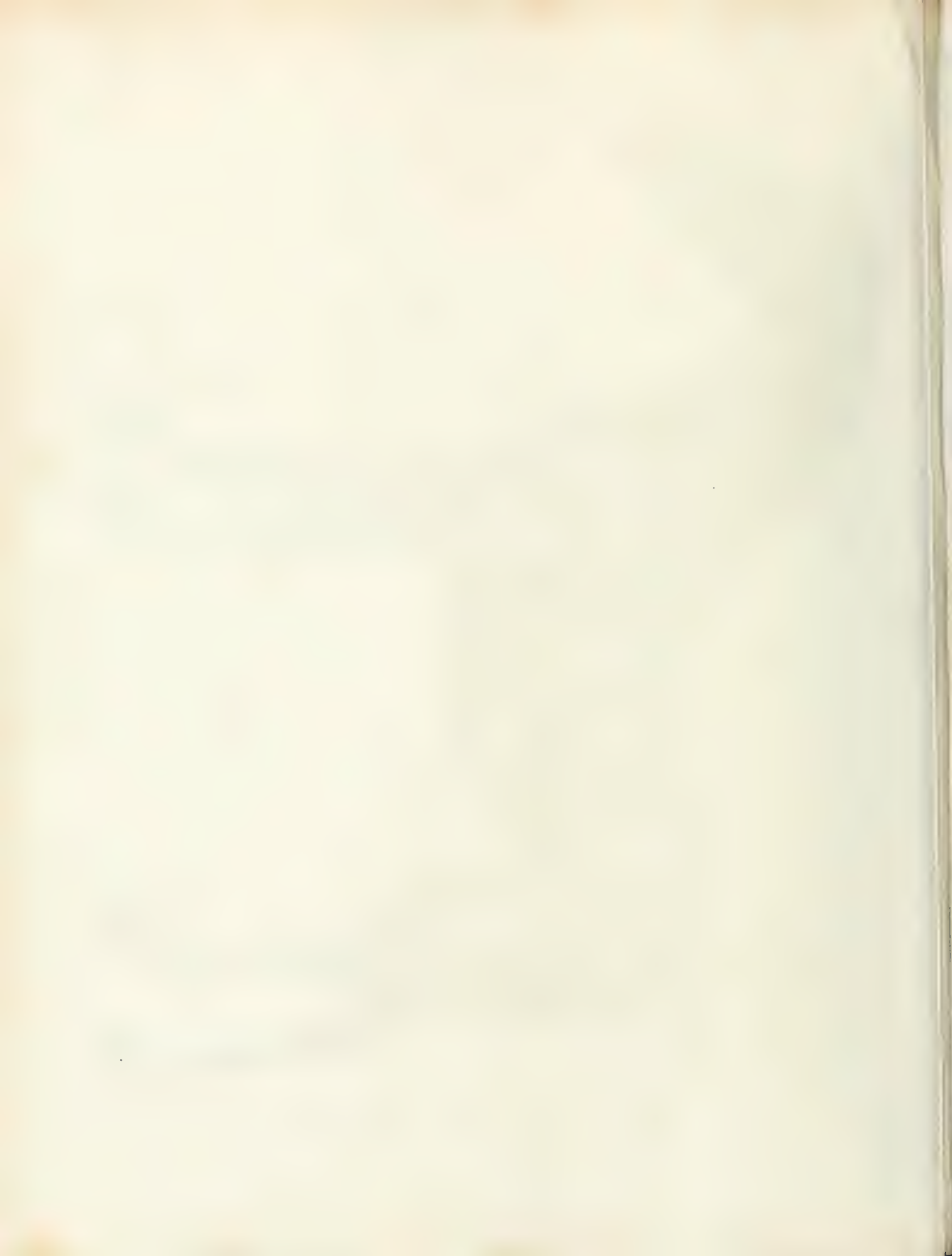


Tabl. 361 as the Act. direct. 3, p. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

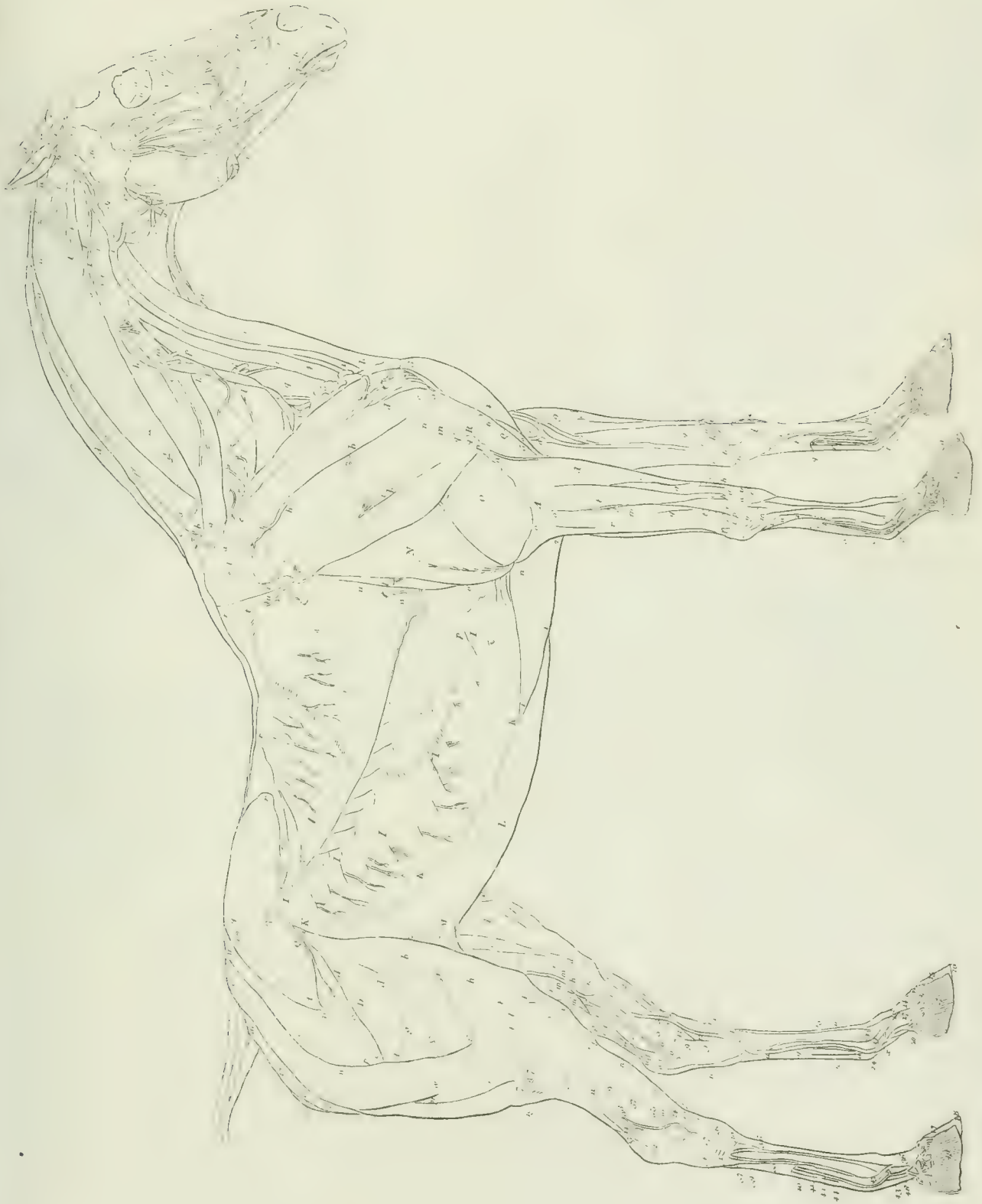


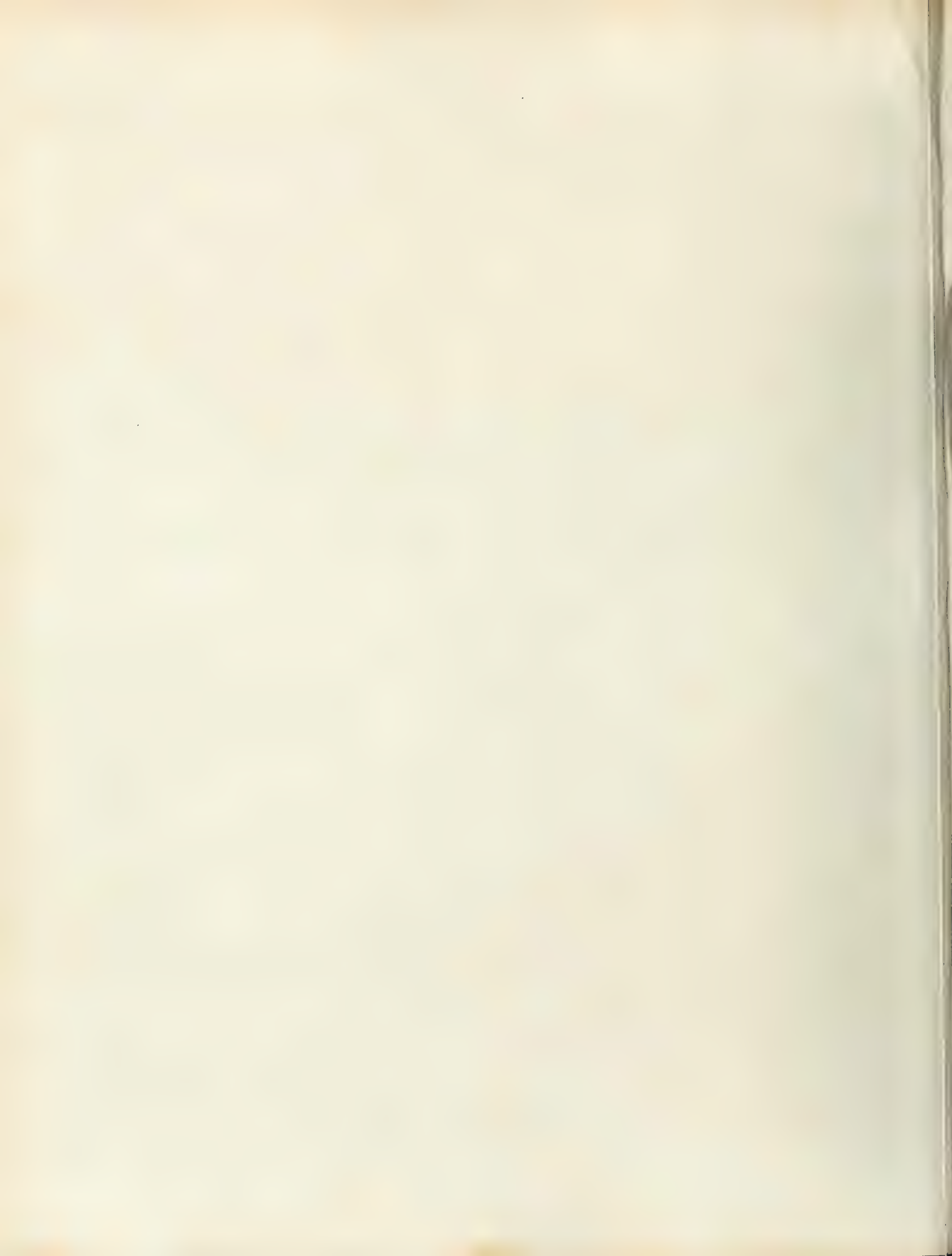
of the Horse.

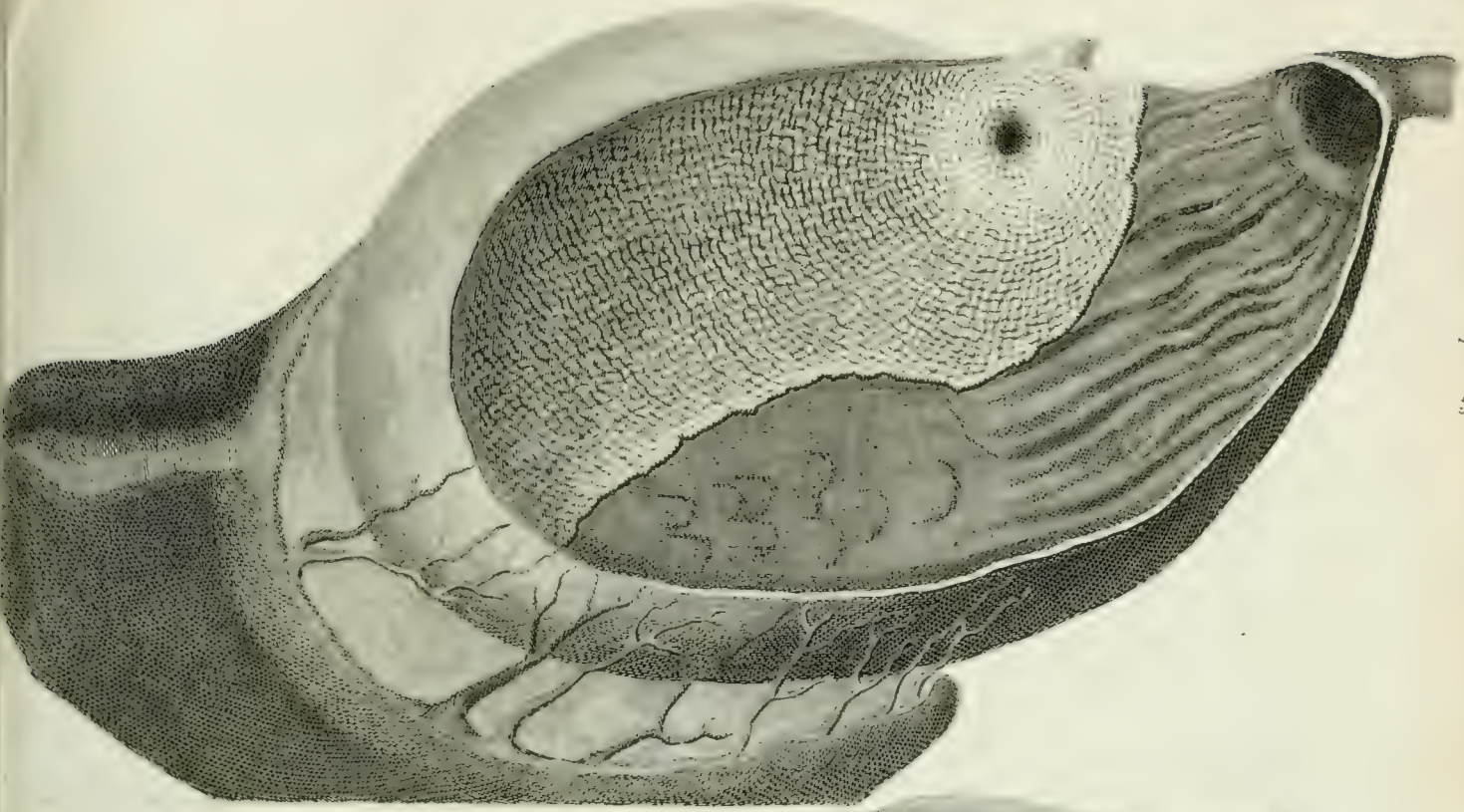




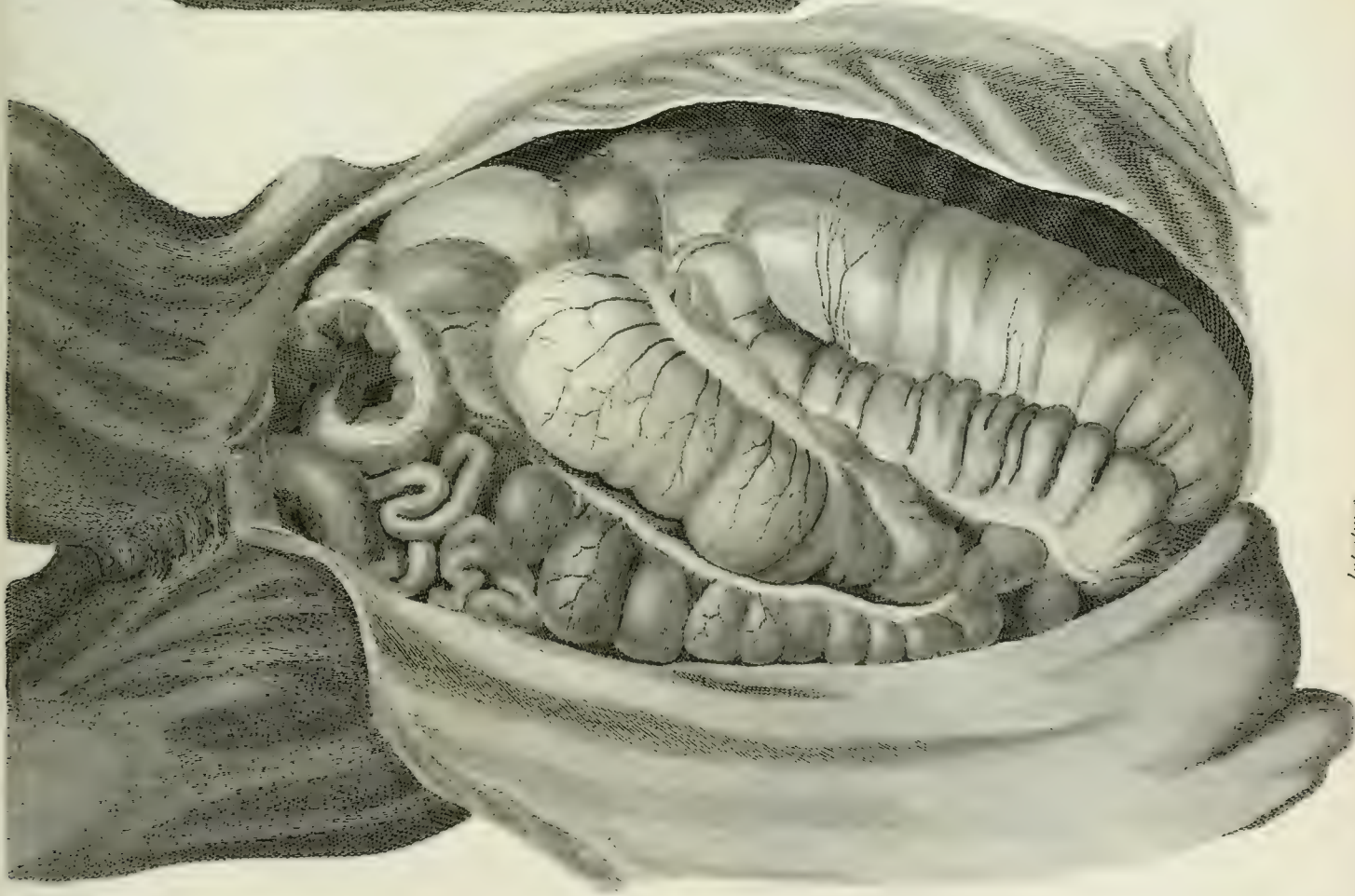




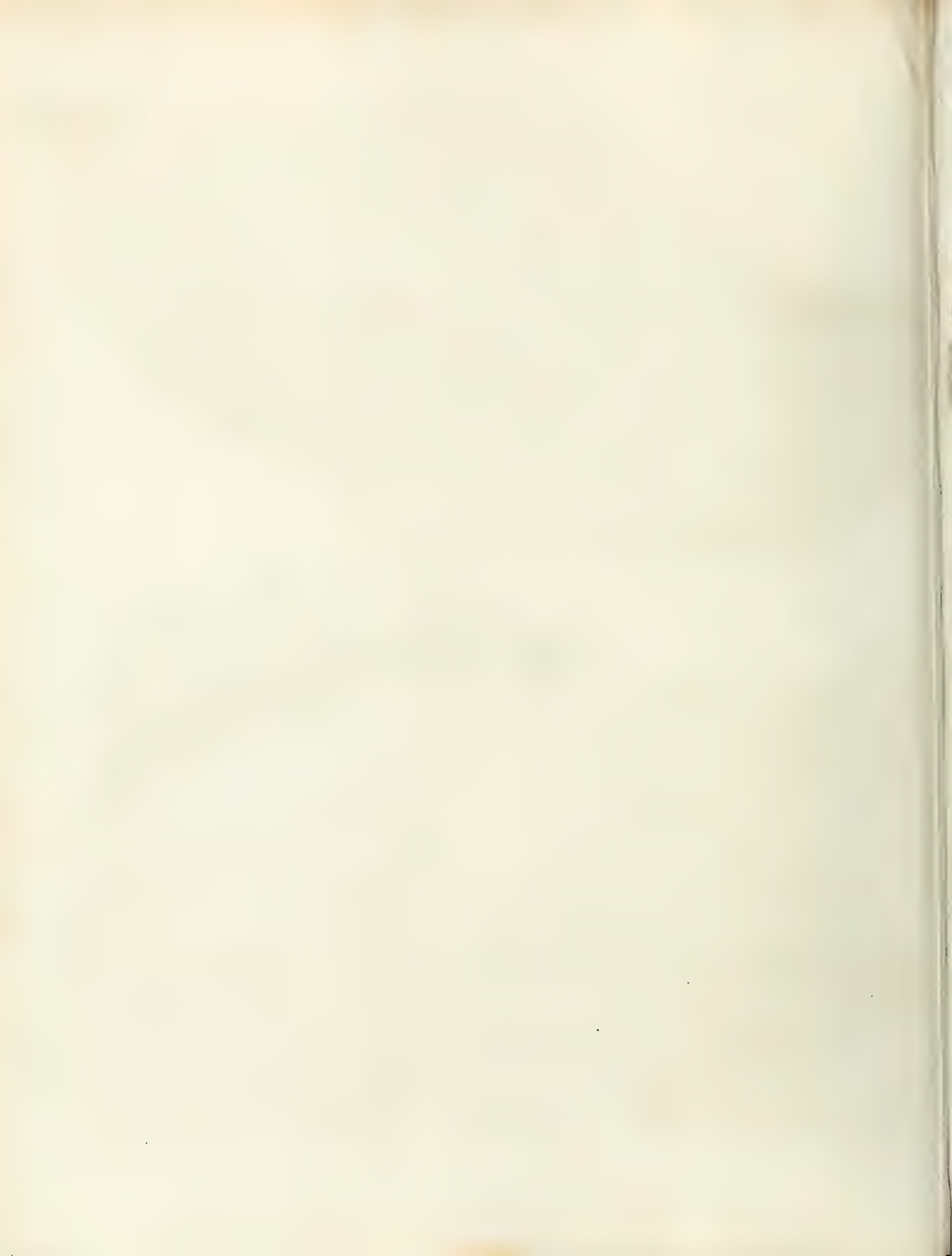




*Stomach.*



*Intestines.*





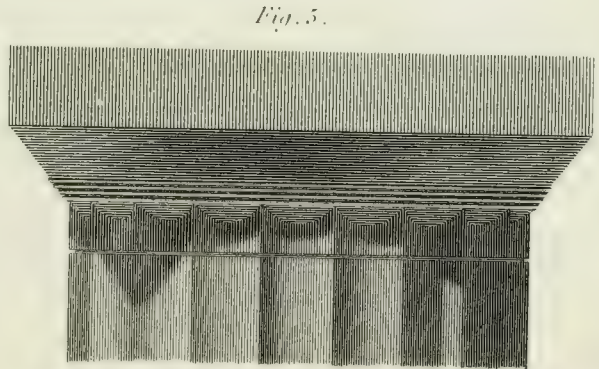
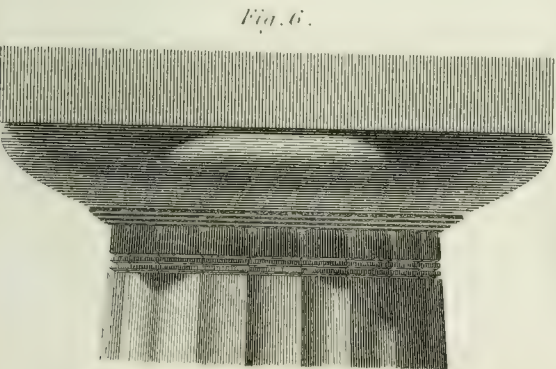
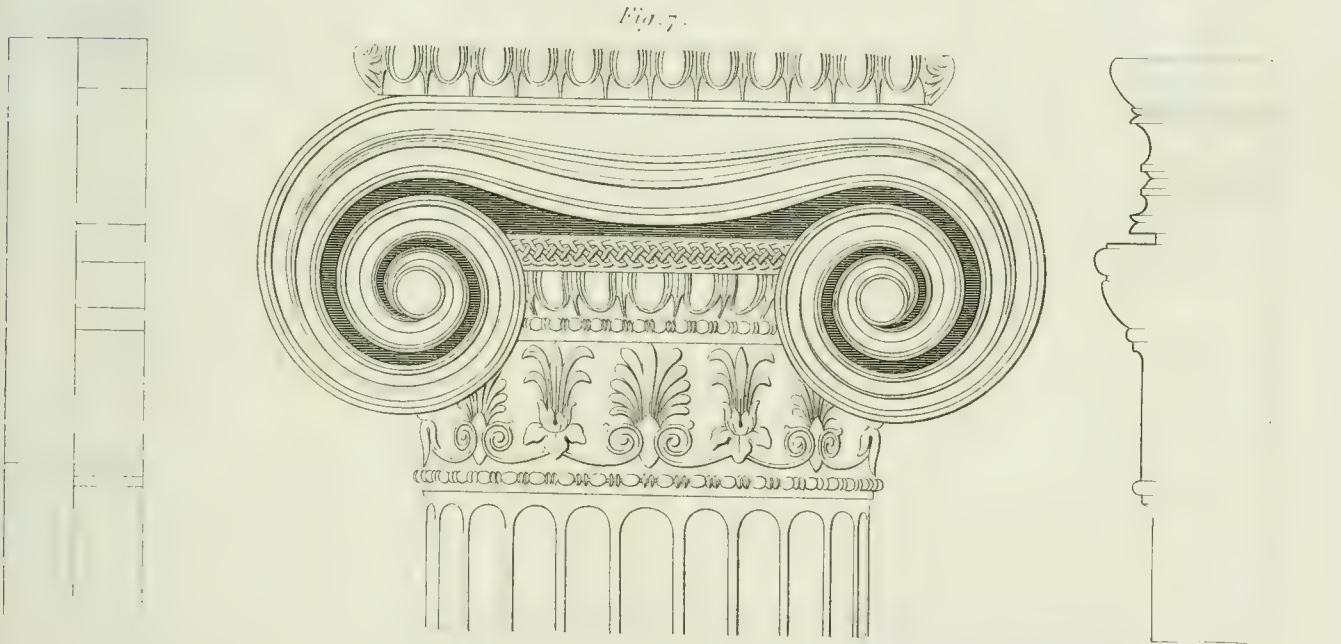
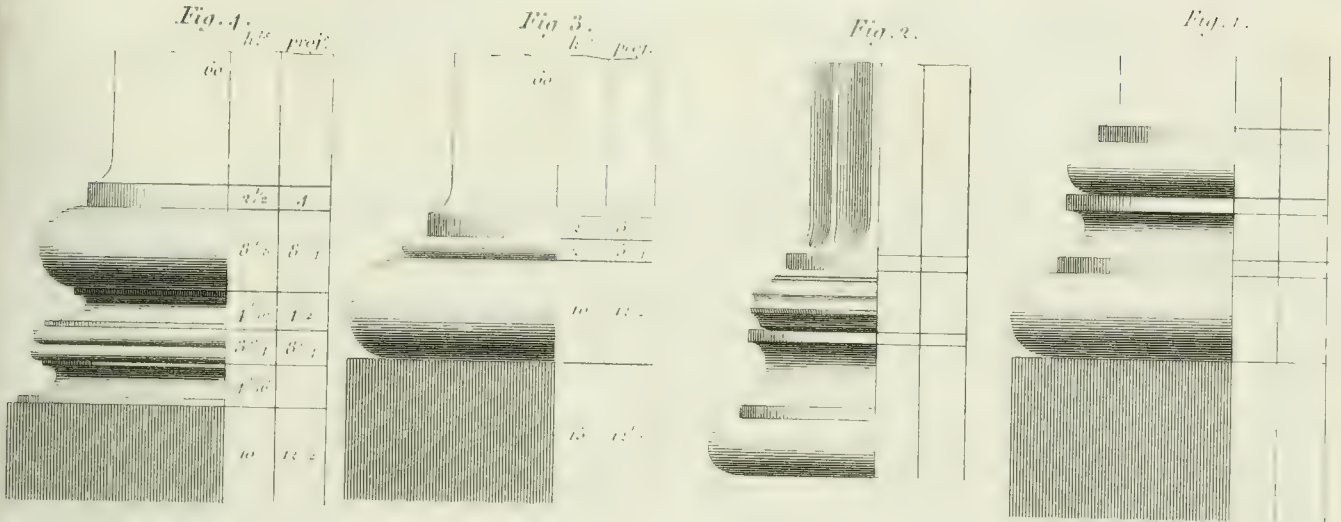


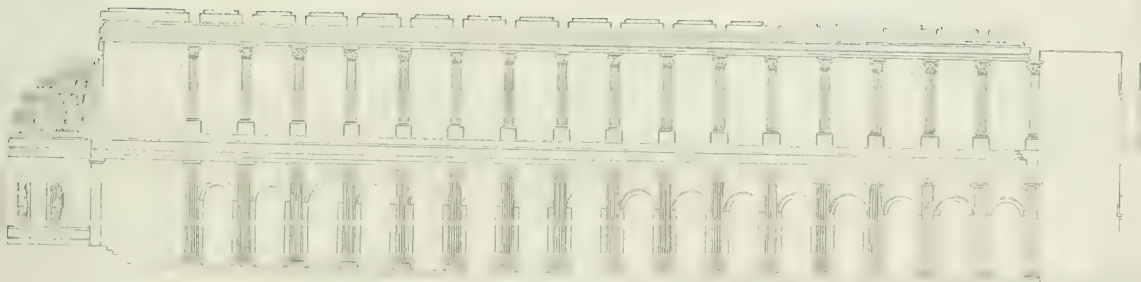
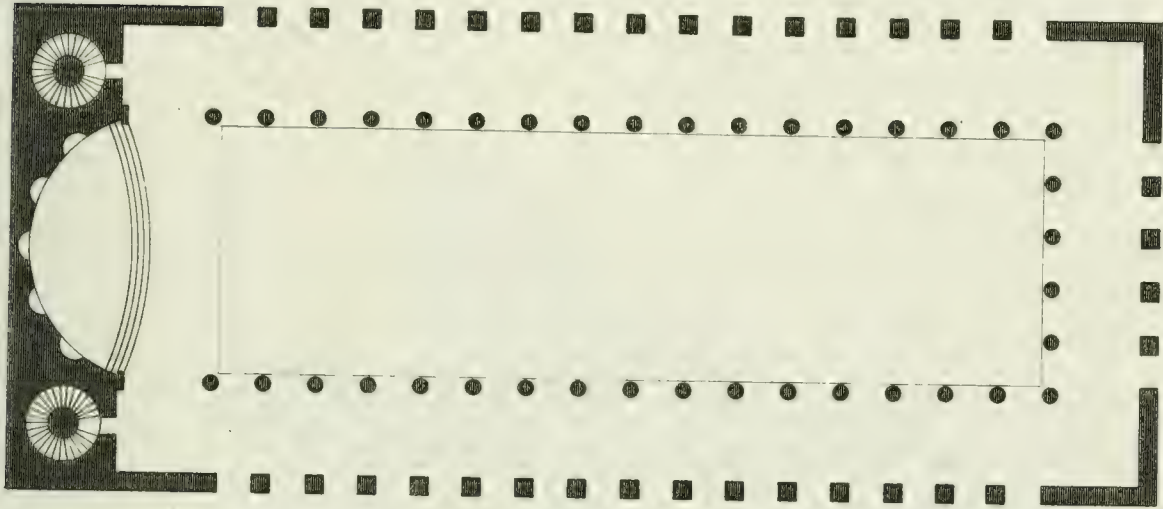
Fig. 1. Attic Base from the remains of the Temple of Jupiter Olympius at Athens.  
 Fig. 2. Attic Base from the Temple of Minerva Polias at Athens.  
 Fig. 3. Doric Base & Fig. 4. Ionic Base according to Vignola.  
 Fig. 5. Doric Capital from the portico of Philip in the Island of Delos.  
 Fig. 6. Doric Capital from the Temple at Corinth.  
 Fig. 7. Ionic Capital from the Temple of Minerva Polias at Athens.



ARCHITECTURE.

PLATE II.

ROMAN BASILICA, FROM THE DESCRIPTION OF VITRUVIUS.



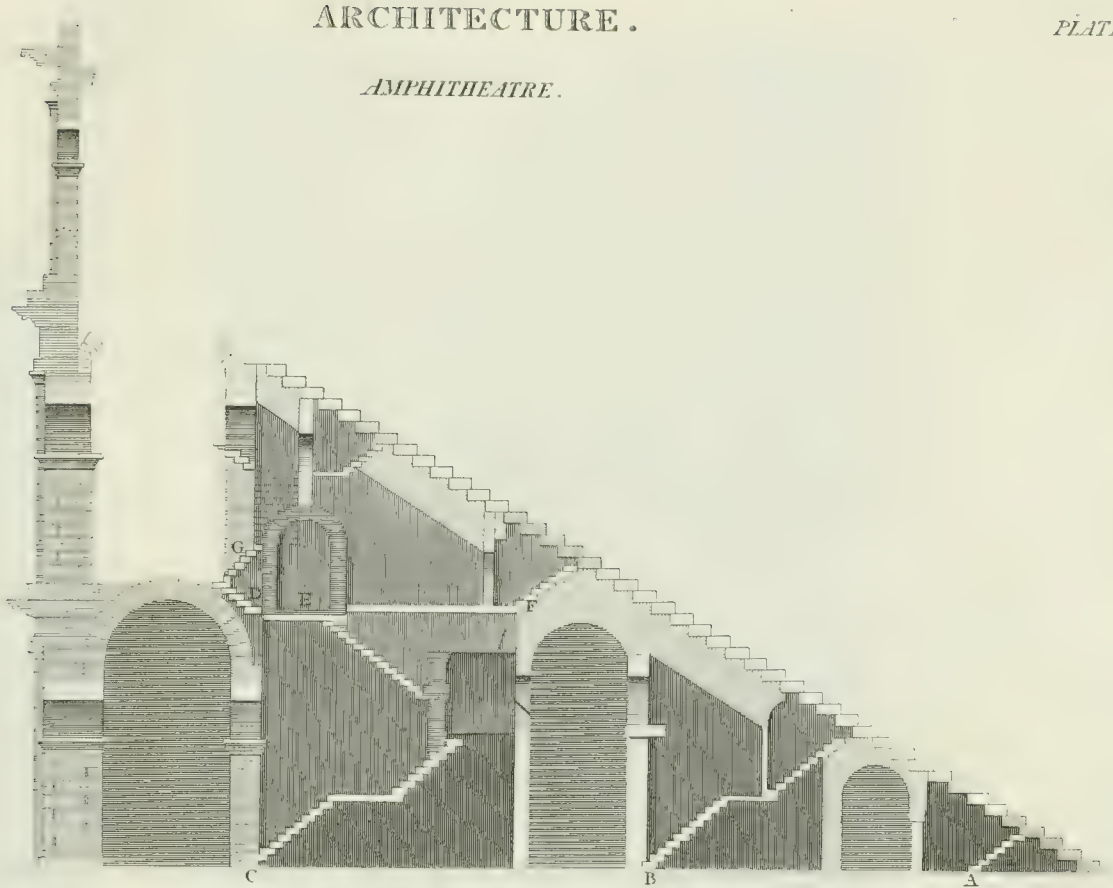




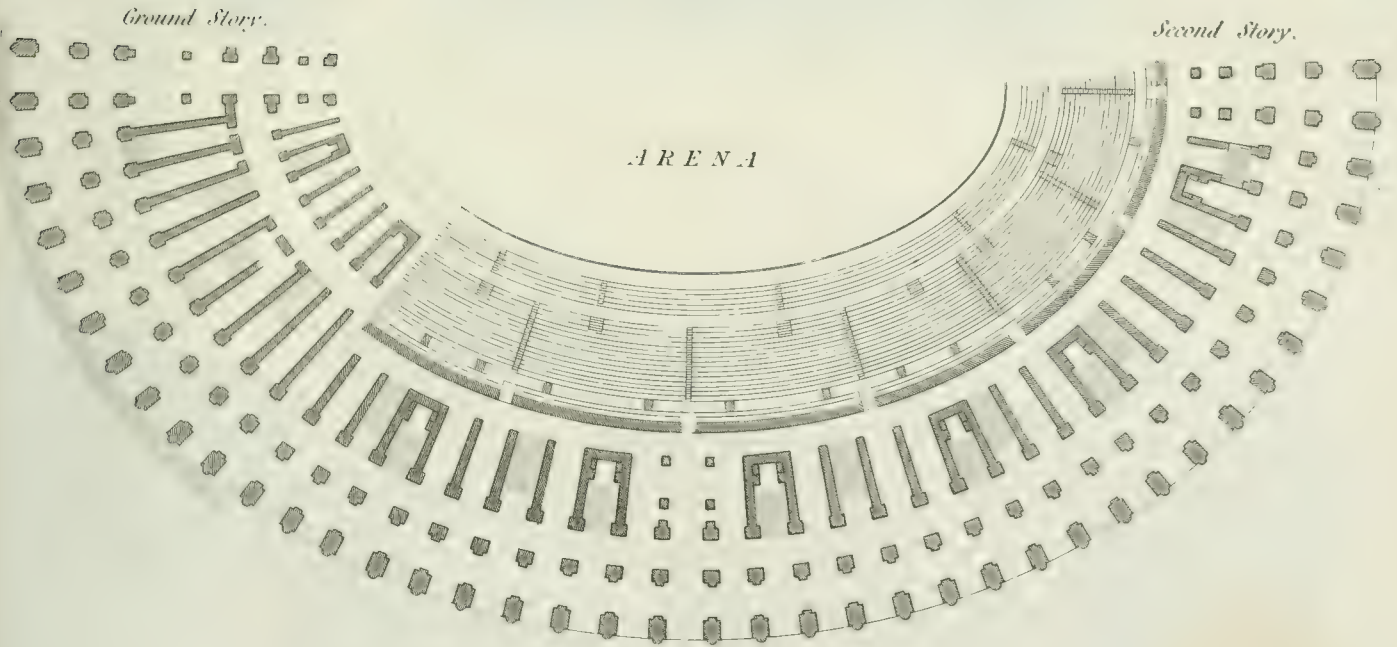
ARCHITECTURE.

PLATE II.

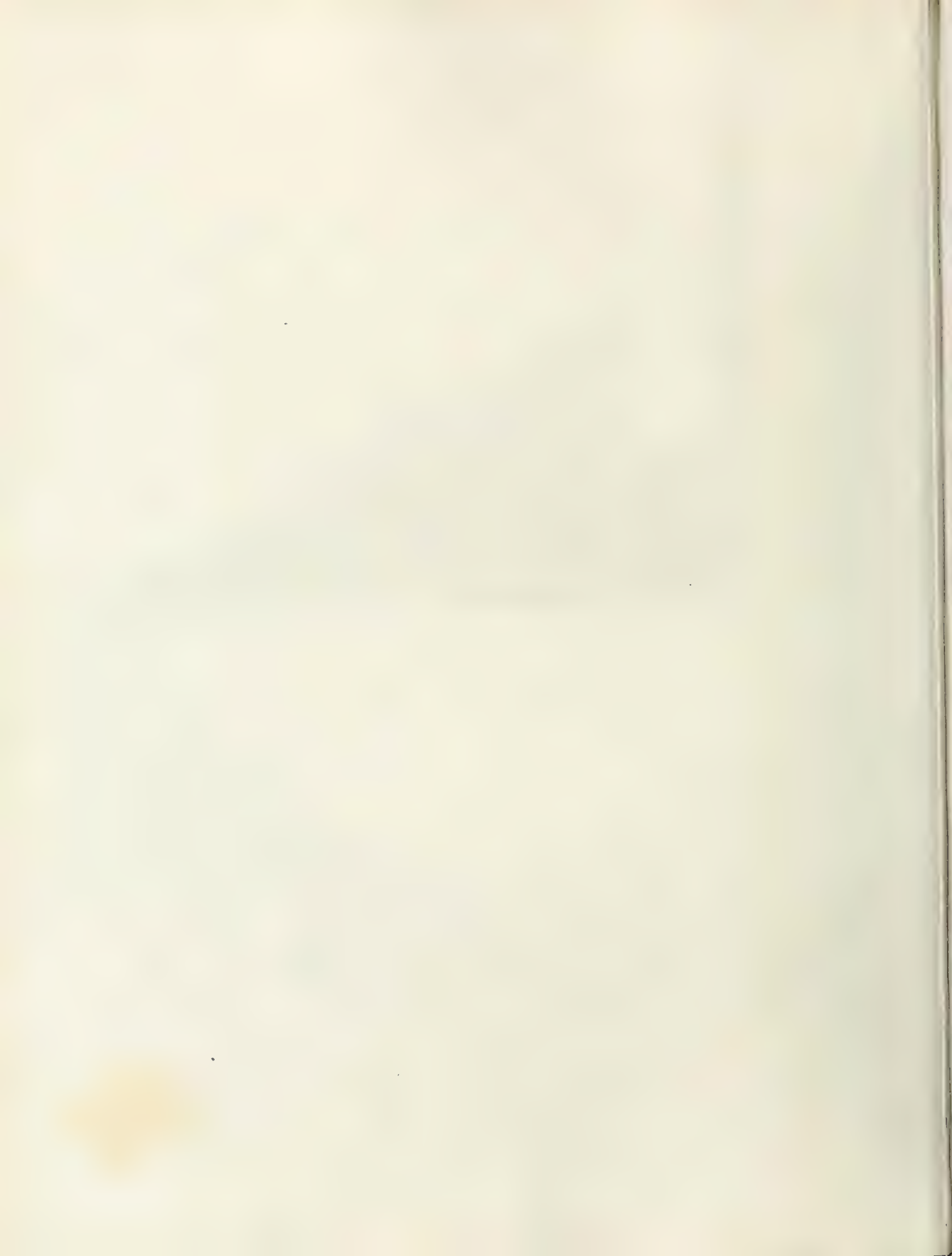
AMPHITHEATRE.



N<sup>o</sup> 1. Referred to as Architecture. PLATE II.



N<sup>o</sup> 2. Referred to as Architecture. PLATE III.

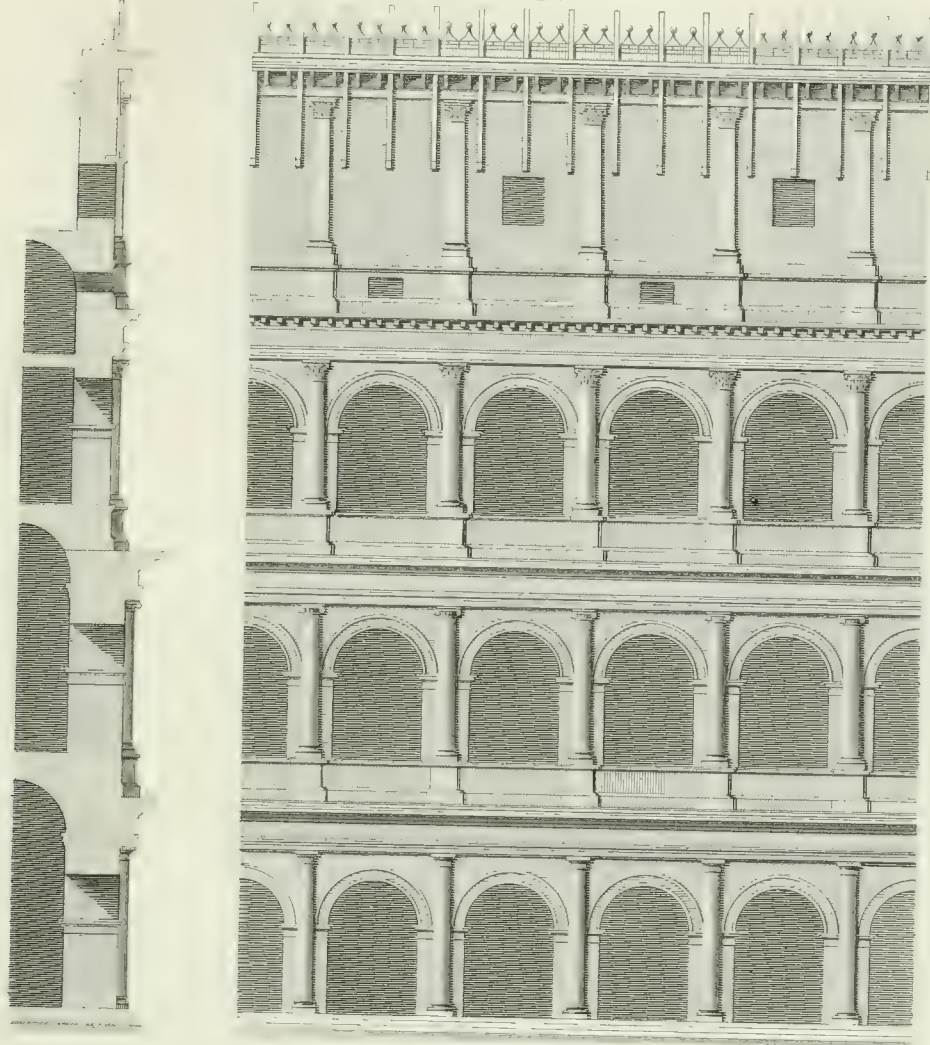


ARCHITECTURE.

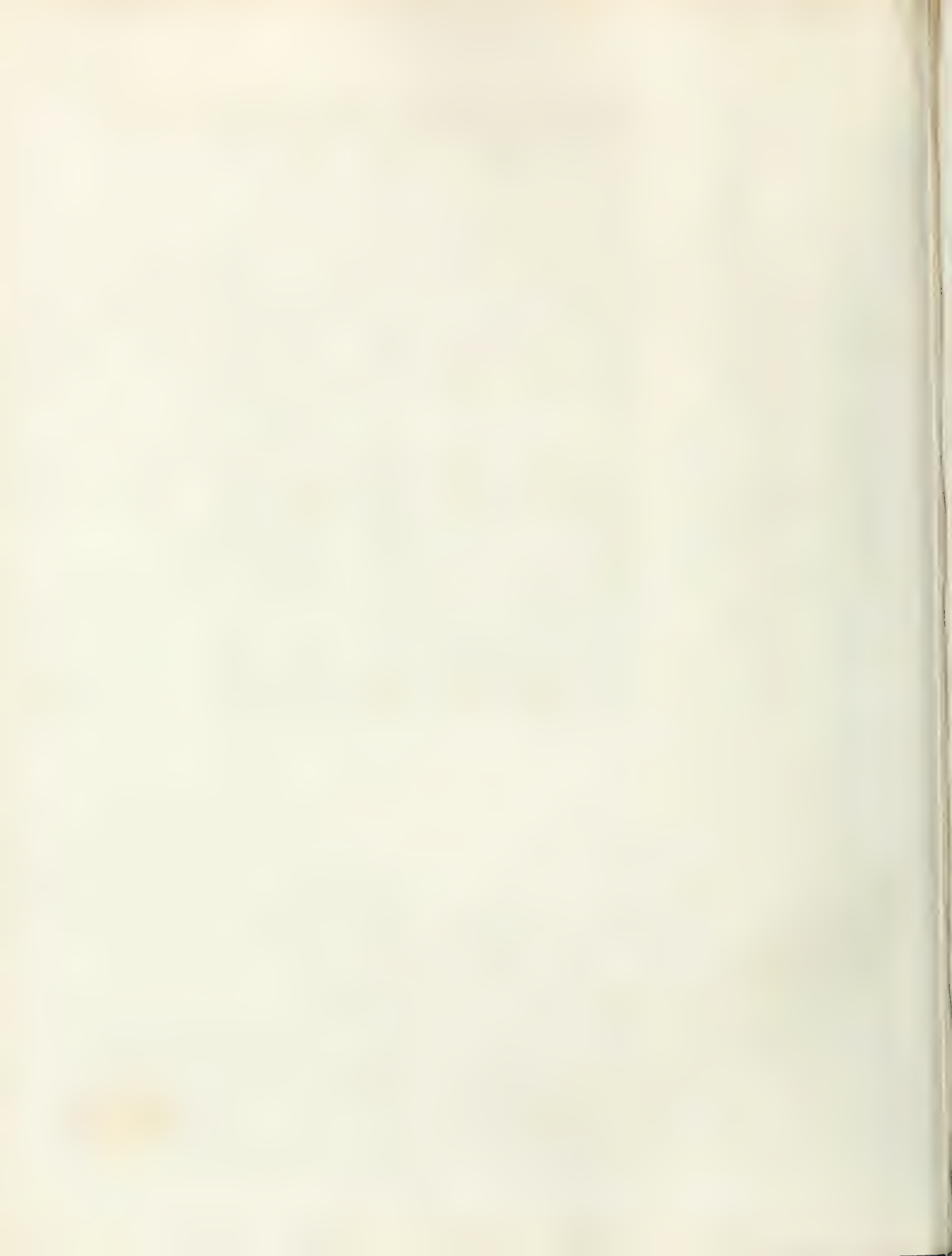
AMPHITHEATRE.

PLATE III.

N<sup>o</sup> 1. Referred to as Architecture. PLATE IV.

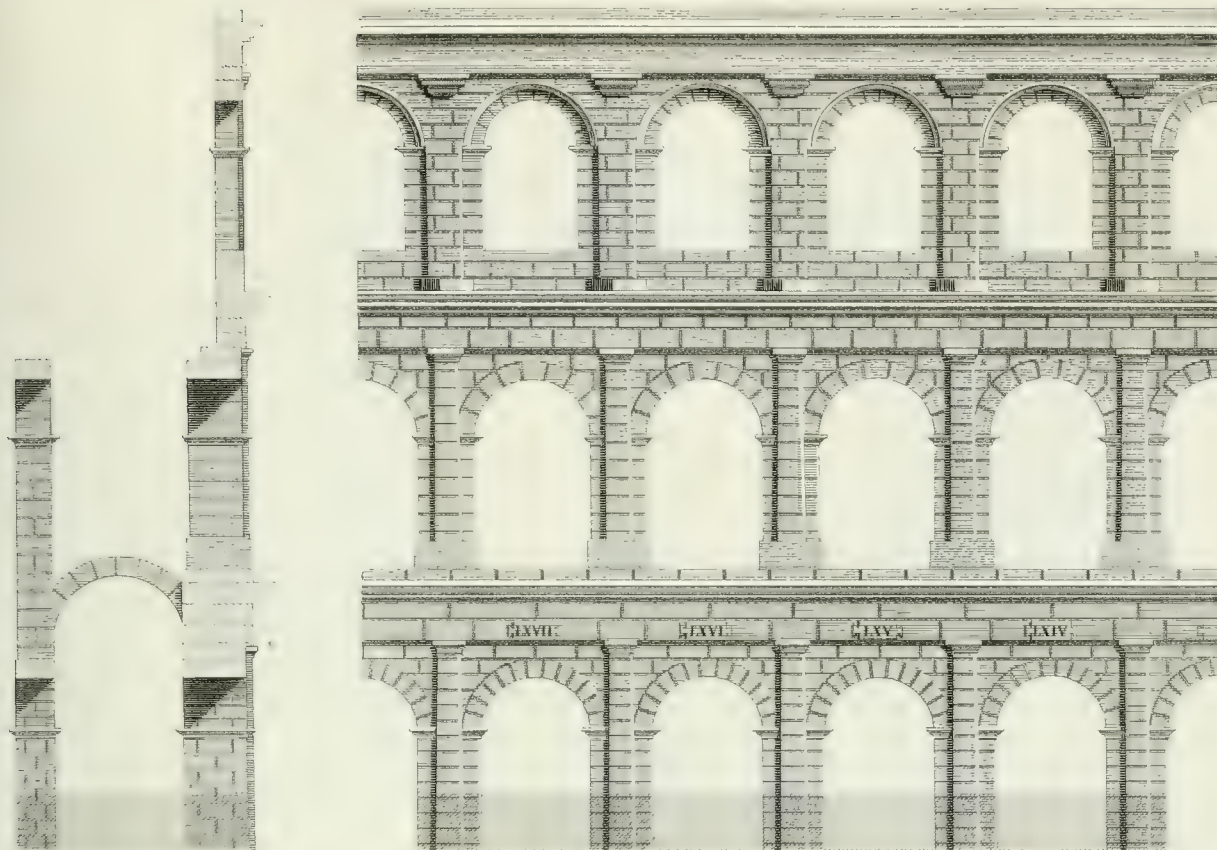


N<sup>o</sup> 2. Referred to as Architecture. PLATE V.

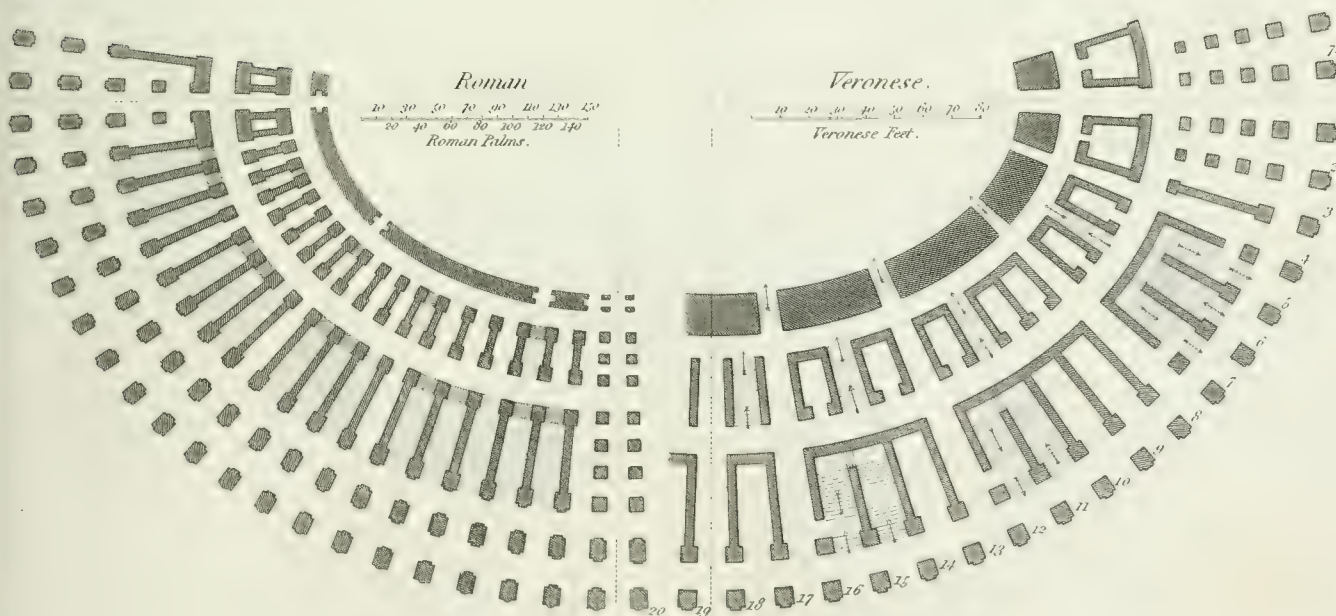


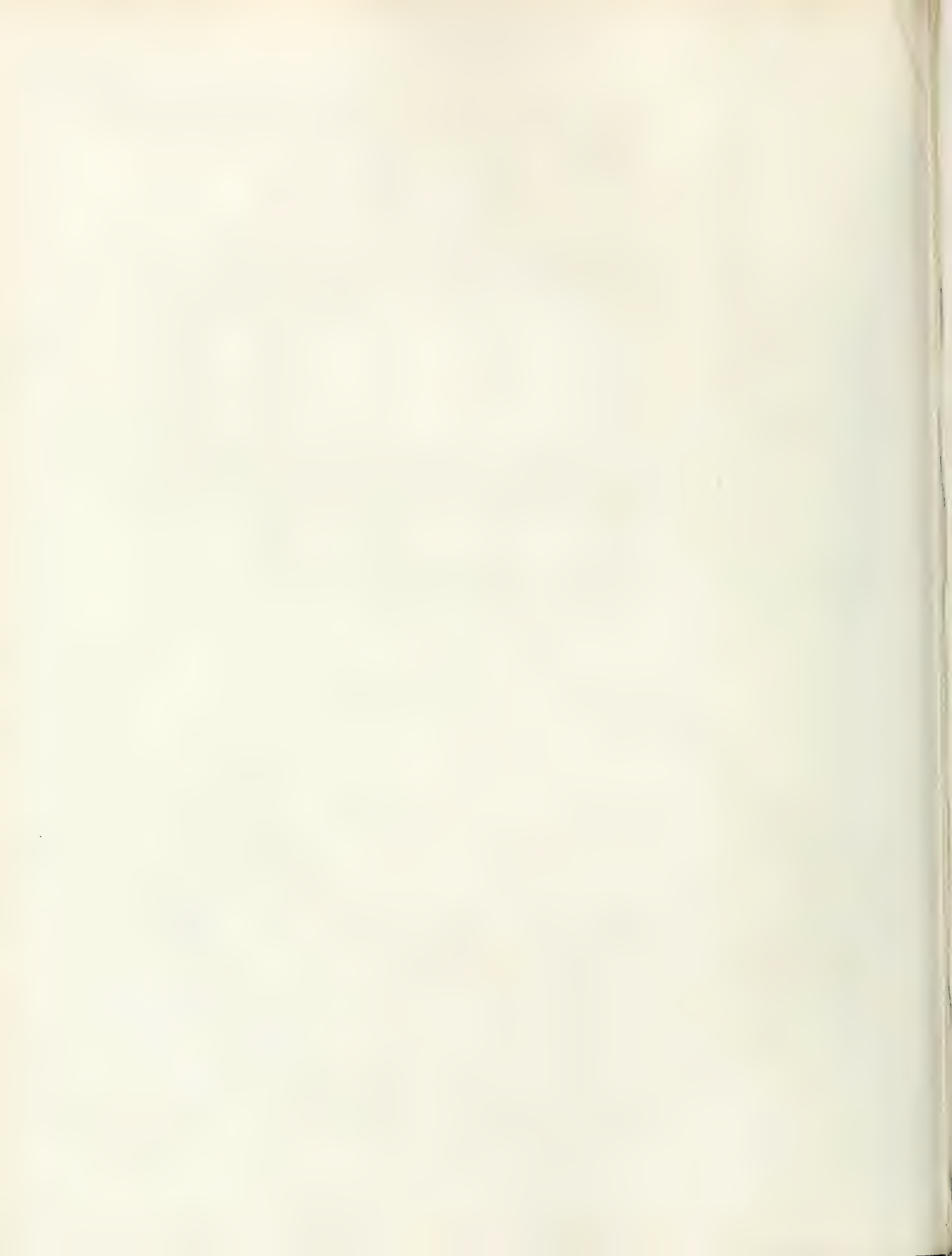


N<sup>o</sup> 1. Referred to as Architecture, Plate VI.



N<sup>o</sup> 2. Referred to as Architecture, Plate VII.

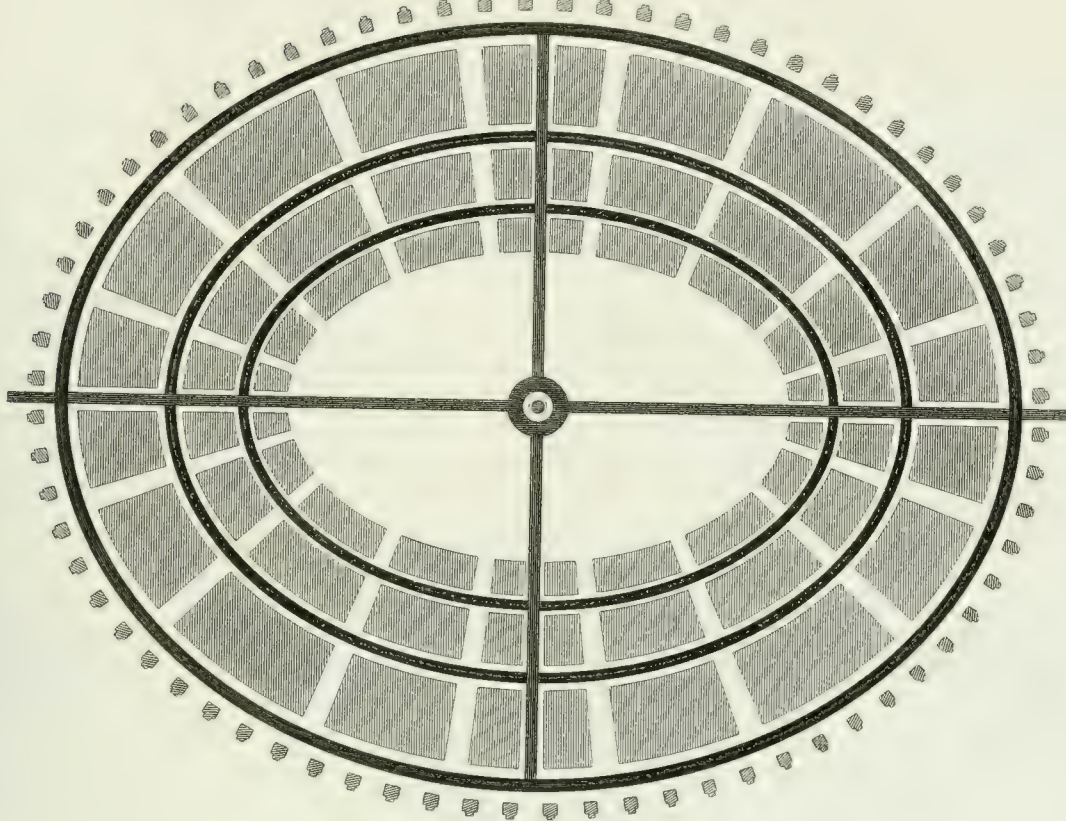




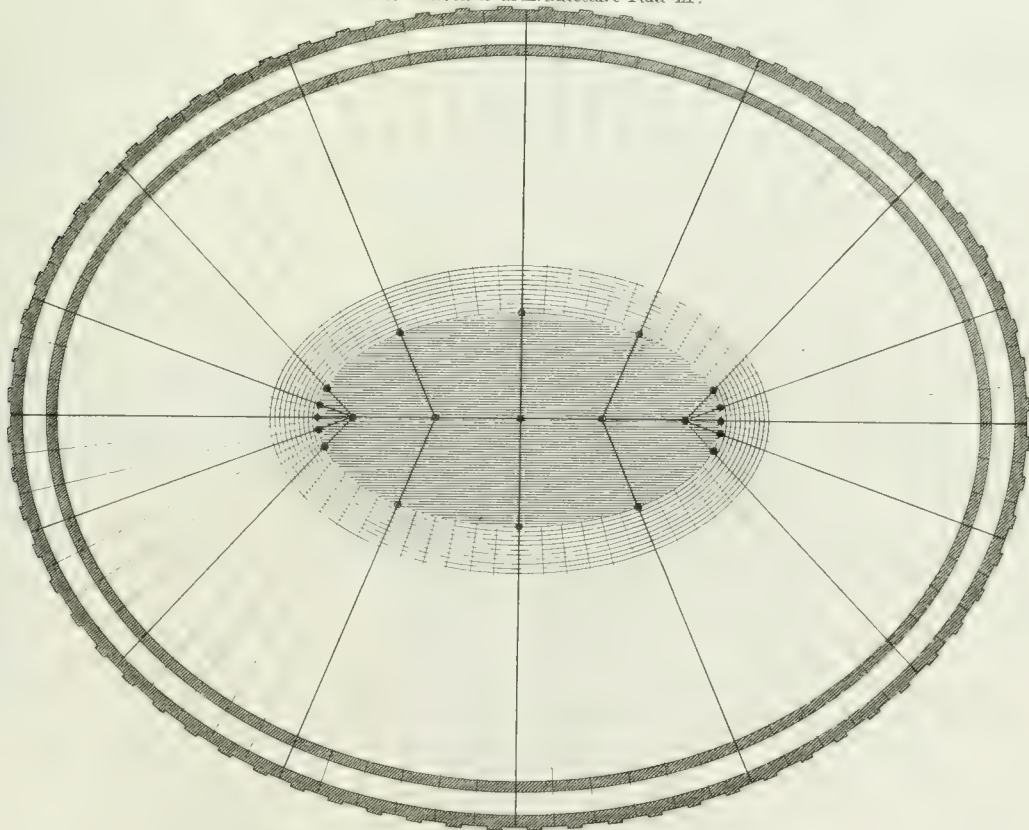
ARCHITECTURE.  
AMPHITHEATRE.

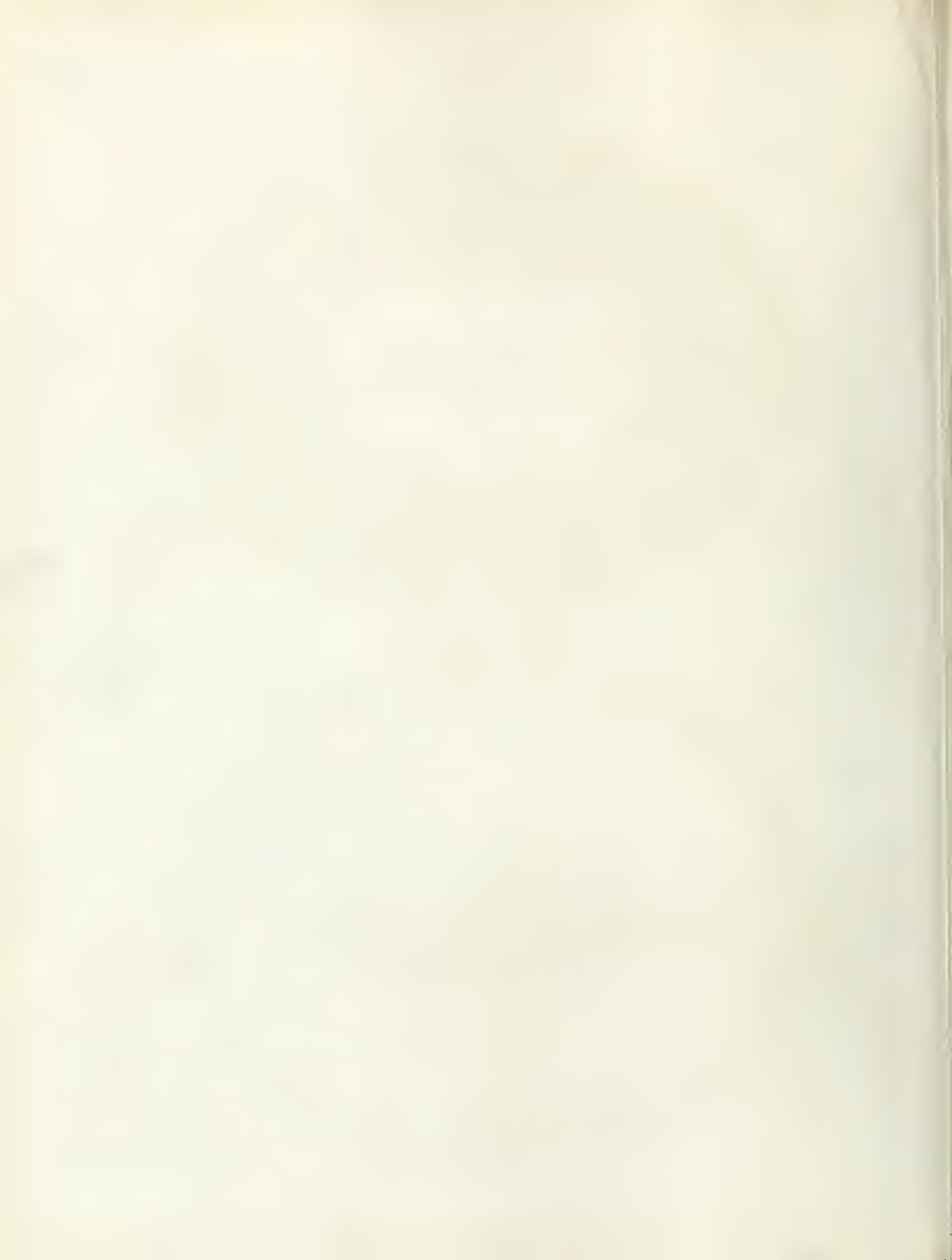
PLATE V.

*N°1. Referred to as Architecture Plate VIII.*



*N°2. Referred to as Architecture Plate IX.*







ARCH.

Fig. 1.

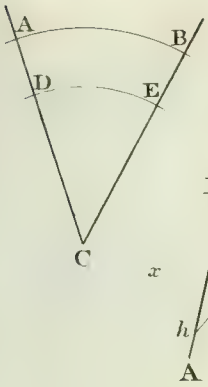


Fig. 2.

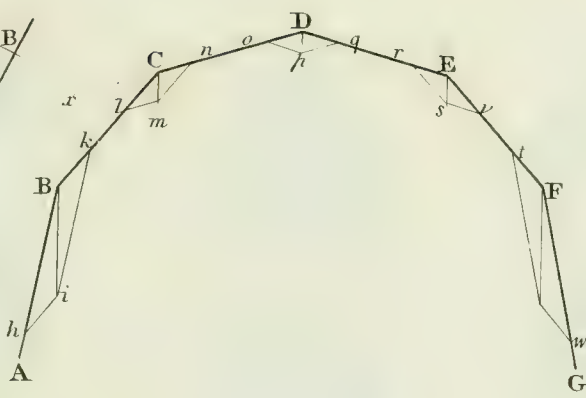


Fig. 3.

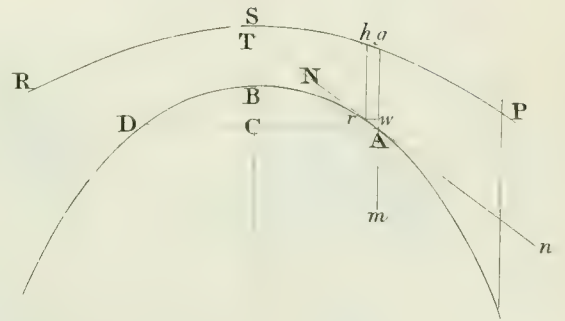


Fig. 4.

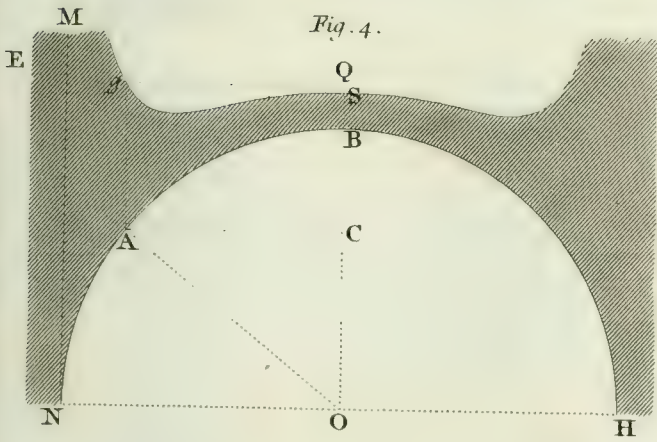


Fig. 5.

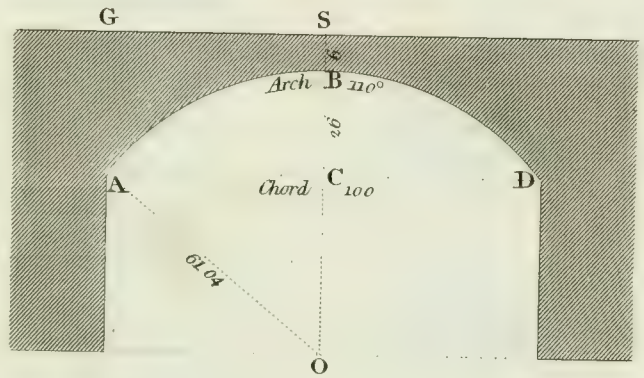


Fig. 6.

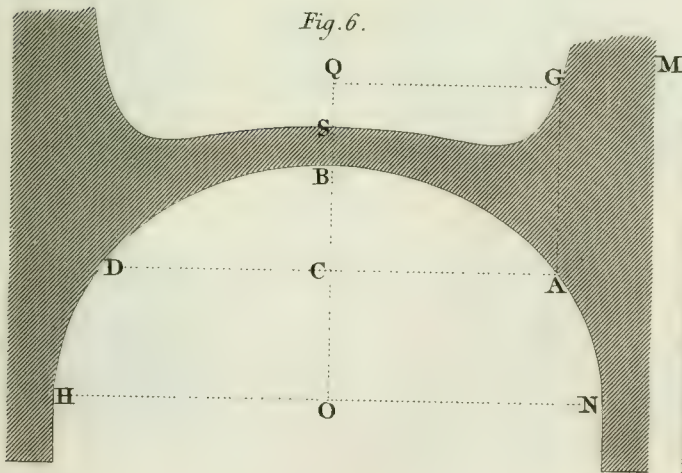
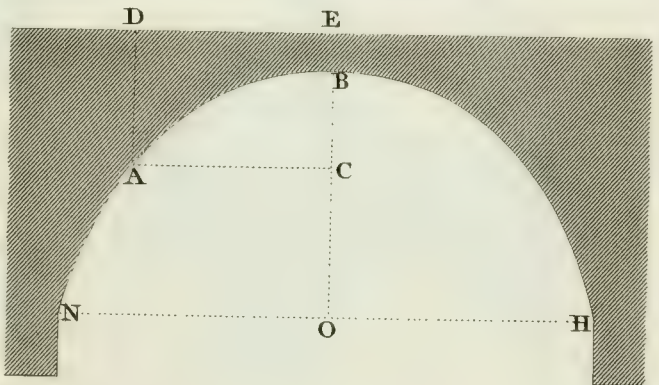


Fig. 7.



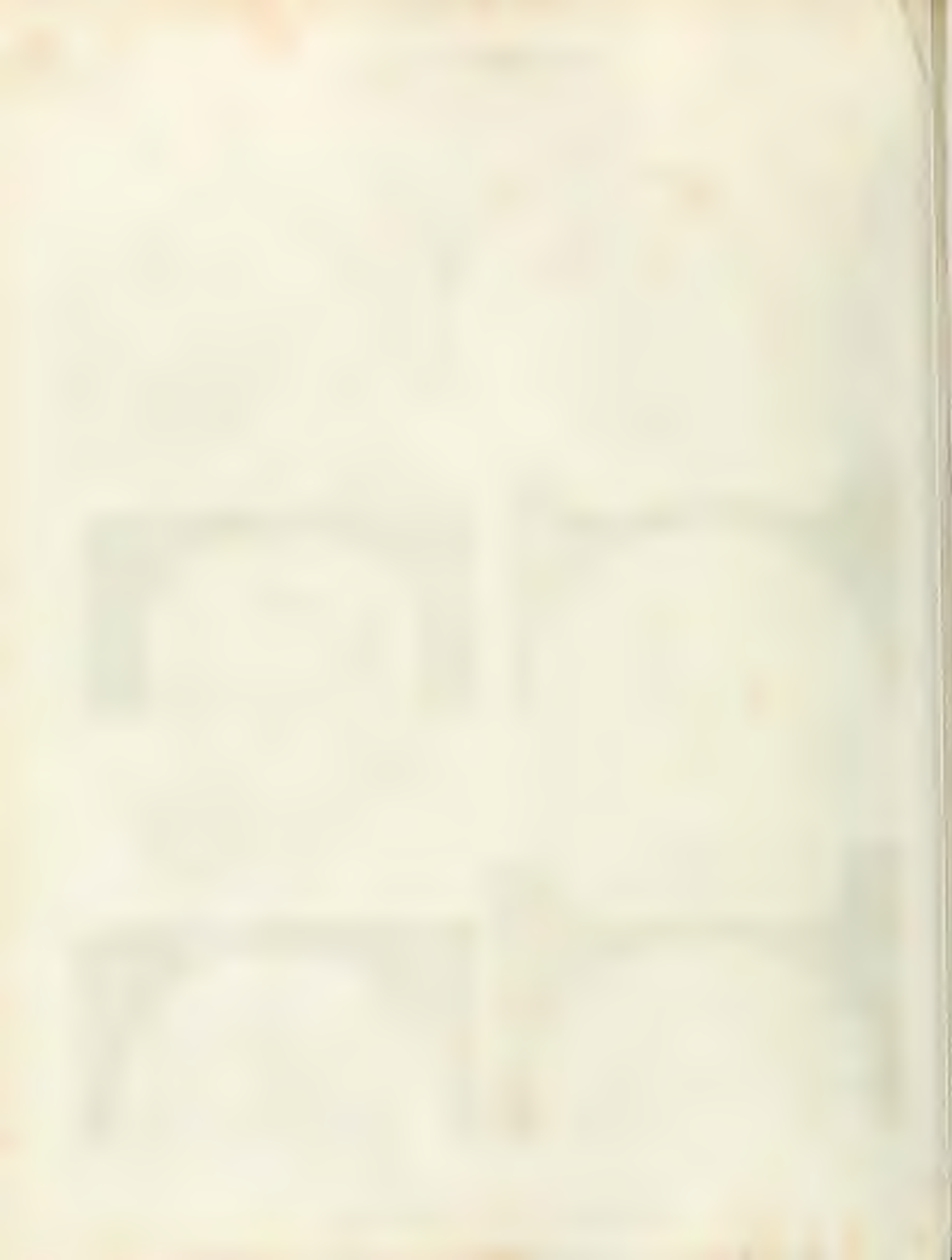


Fig. 1. N° 4.



Fig. 1. N° 3.

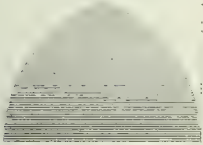


Fig. 1. N° 2.



Fig. 1. N° 1.



Fig. 2. N° 4.

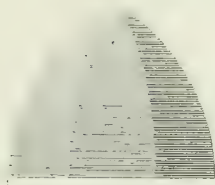


Fig. 2. N° 3.



Fig. 2. N° 2.



Fig. 2. N° 1.



Fig. 3. N° 6.

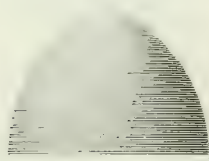


Fig. 3. N° 5.



Fig. 3. N° 4.



Fig. 3. N° 3.



Fig. 3. N° 2.



Fig. 3. N° 1.



Fig. 4. N° 5.

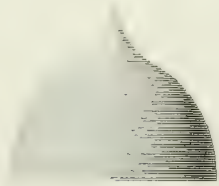


Fig. 4. N° 4.

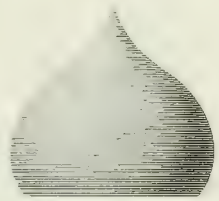


Fig. 4. N° 3.

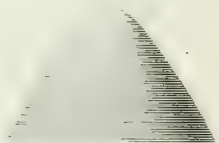


Fig. 4. N° 2.

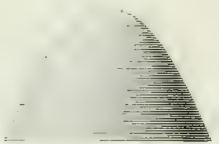


Fig. 4. N° 1.



Fig. 6. N° 2.

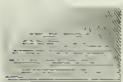


Fig. 6. N° 1.



Fig. 6. N° 3.



Fig. 6. N° 4.

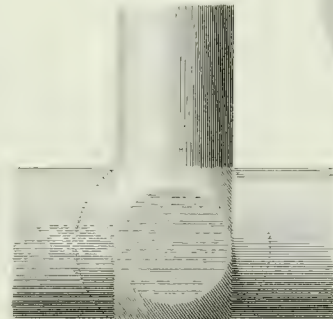


Fig. 6. N° 5.

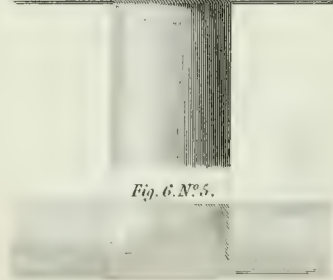


Fig. 7. N° 1.

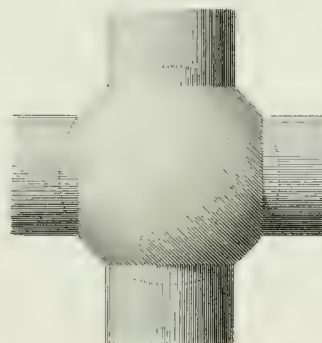
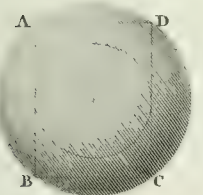


Fig. 7. N° 2.



Fig. 5.



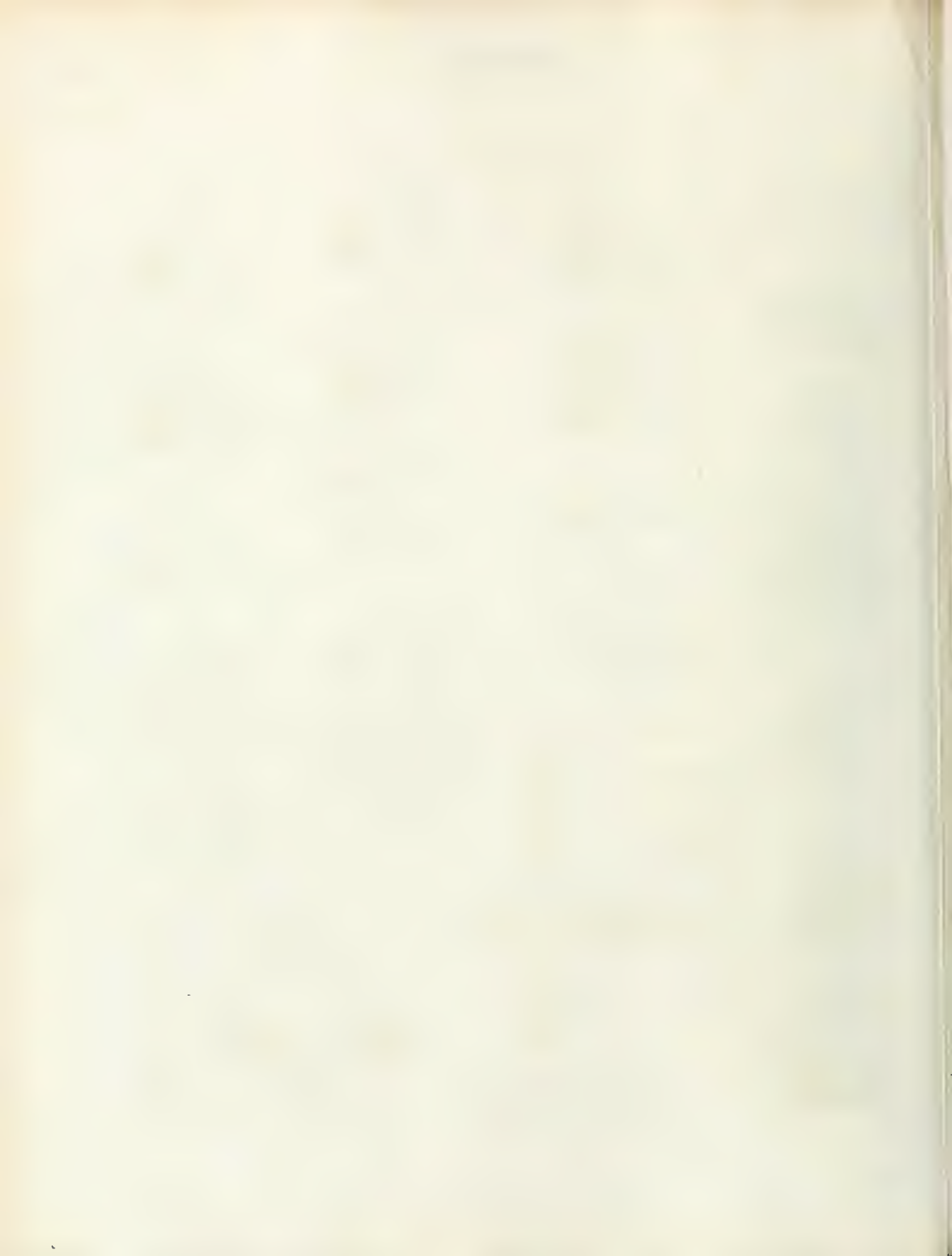




Fig. 1.

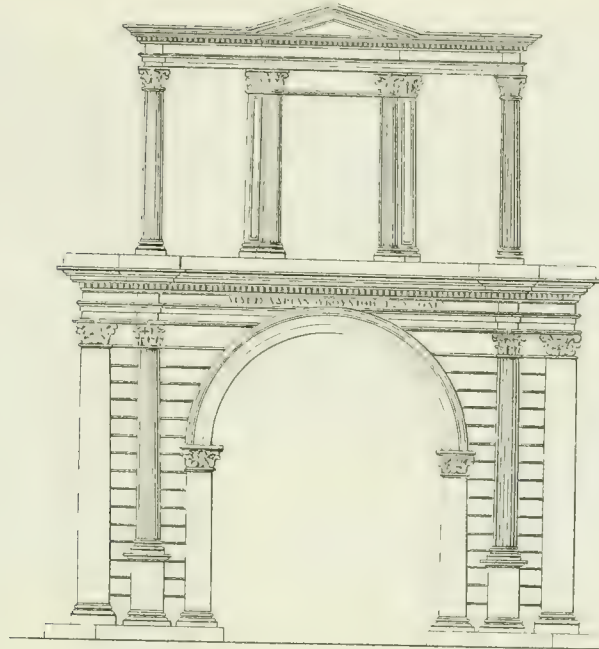


Fig. 2.

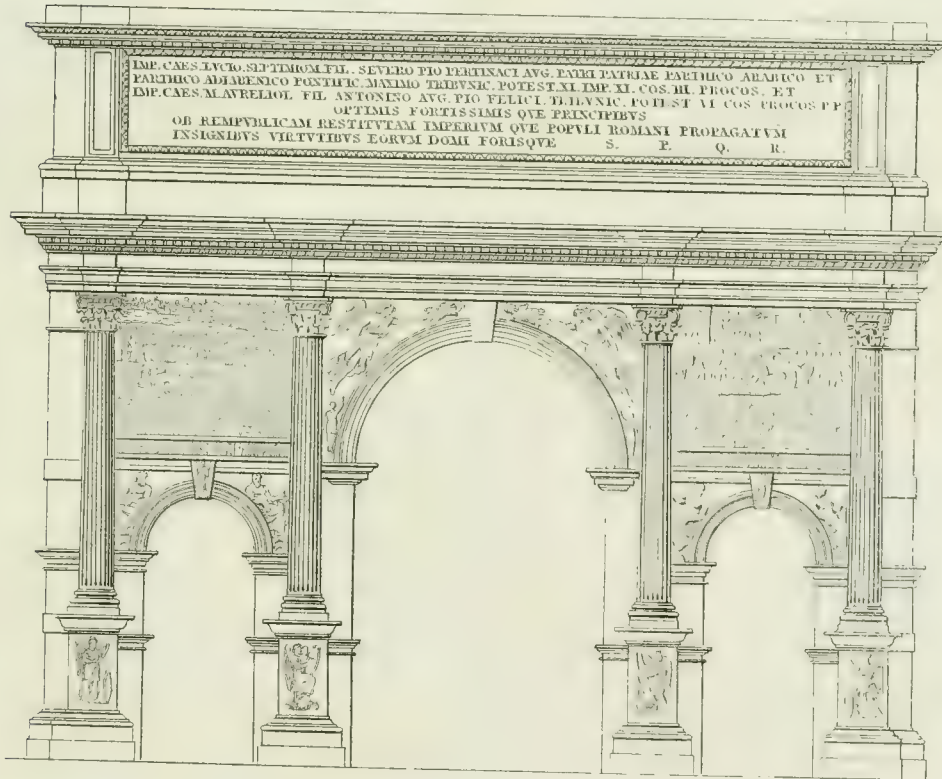


Fig. 1. The Arch of Adrian at Athens

Fig. 2. The Arch of Septimius Severus at Rome.

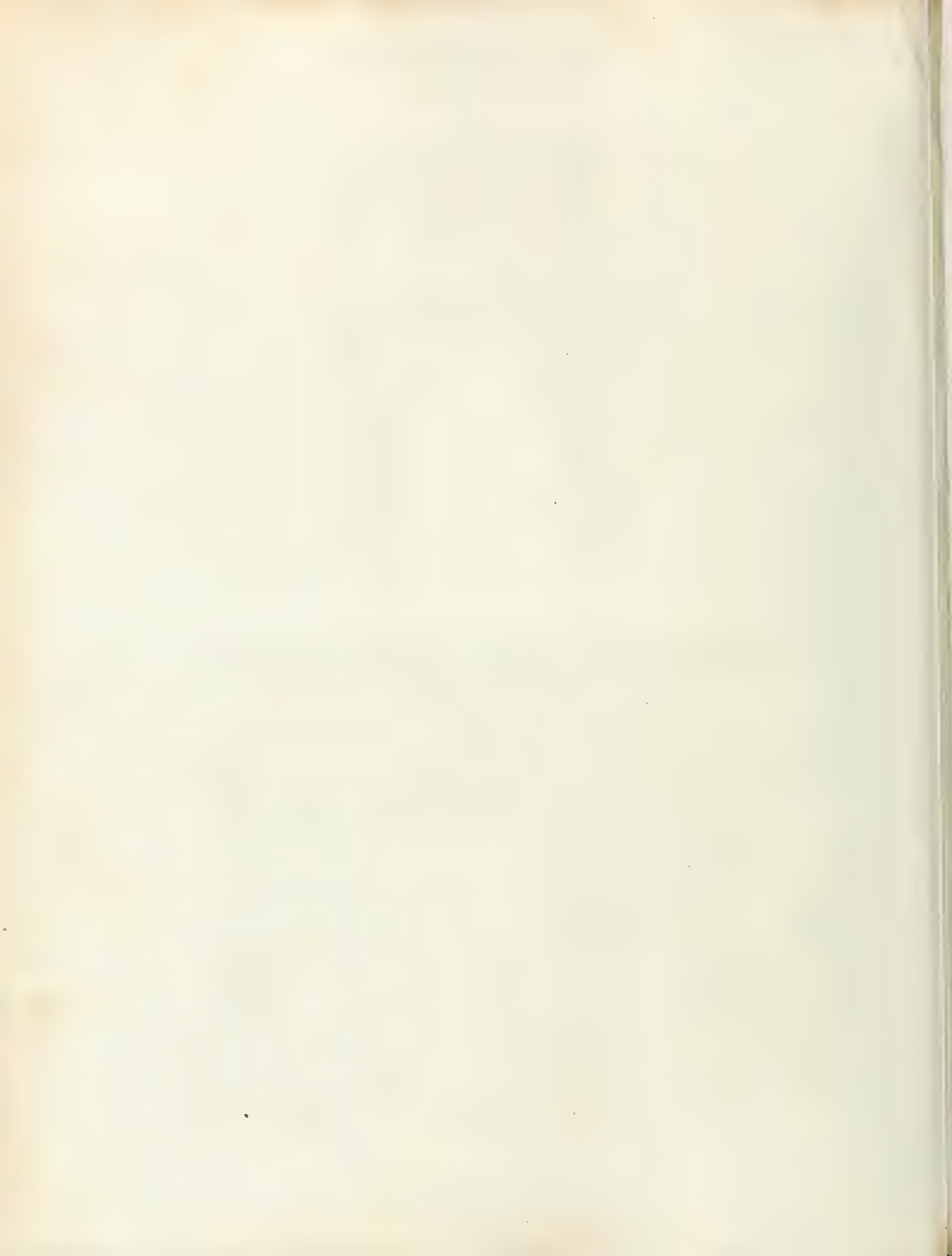


Fig. 1.



Fig. 2.



Fig. 3.

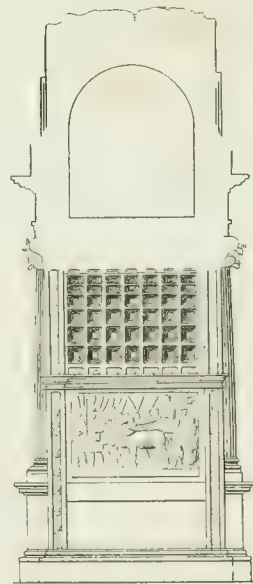
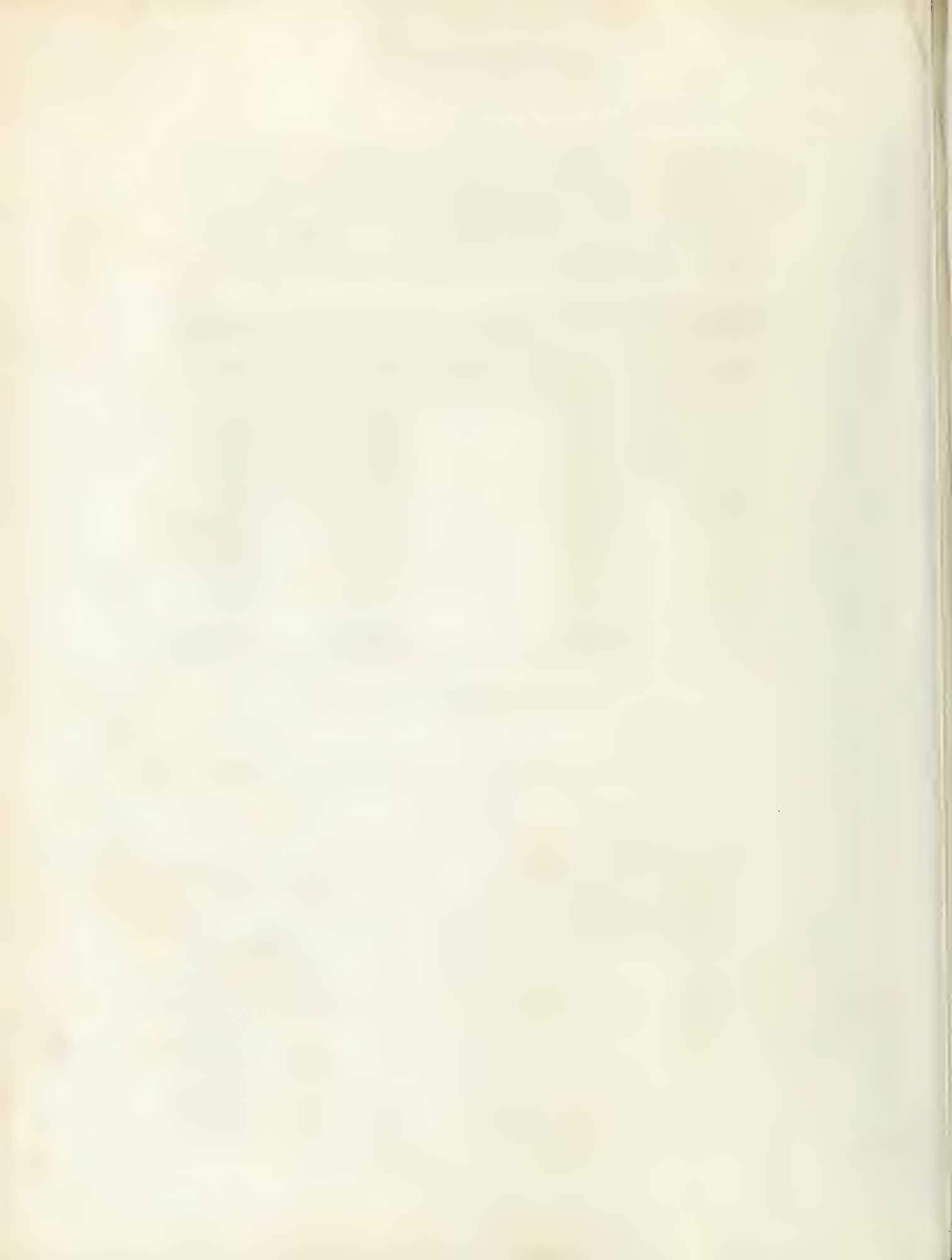


Fig. 1. The Arch of Constantine.

Fig. 2. The Arch of Titus.

Fig. 3. Section of the same.





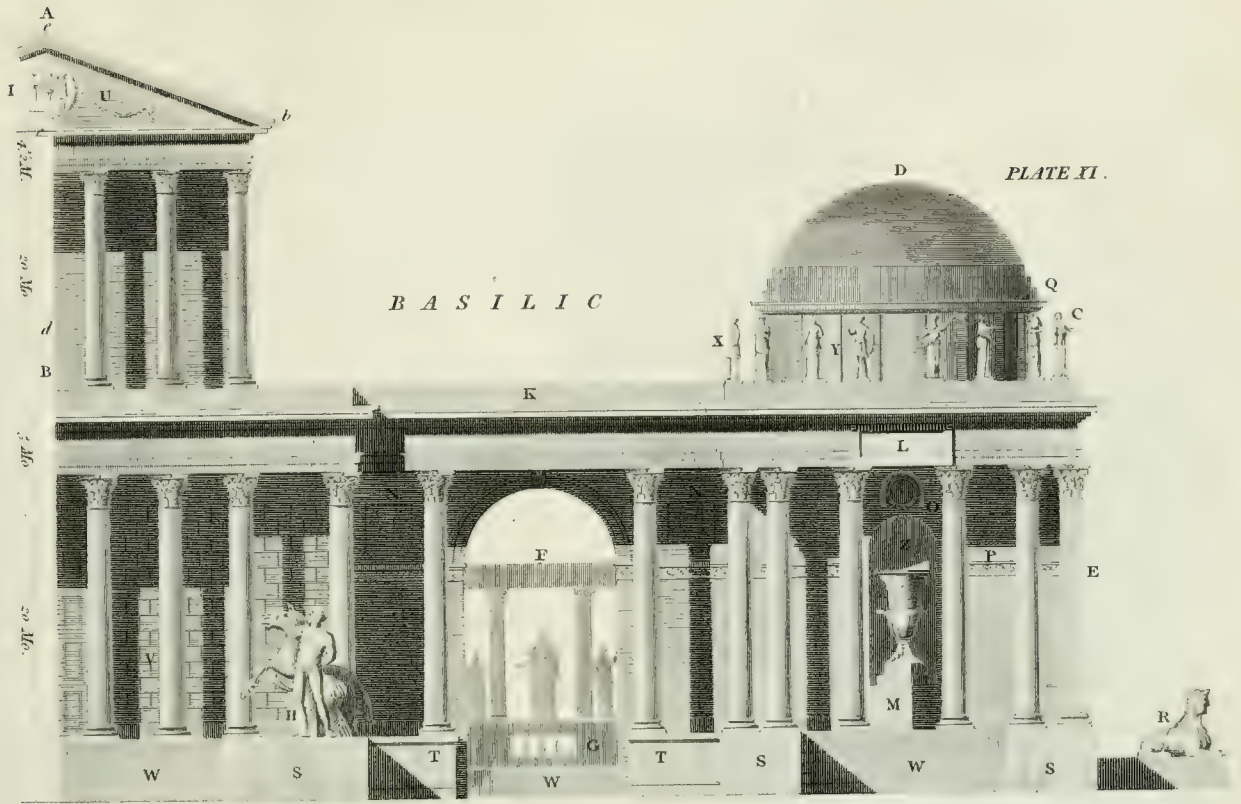
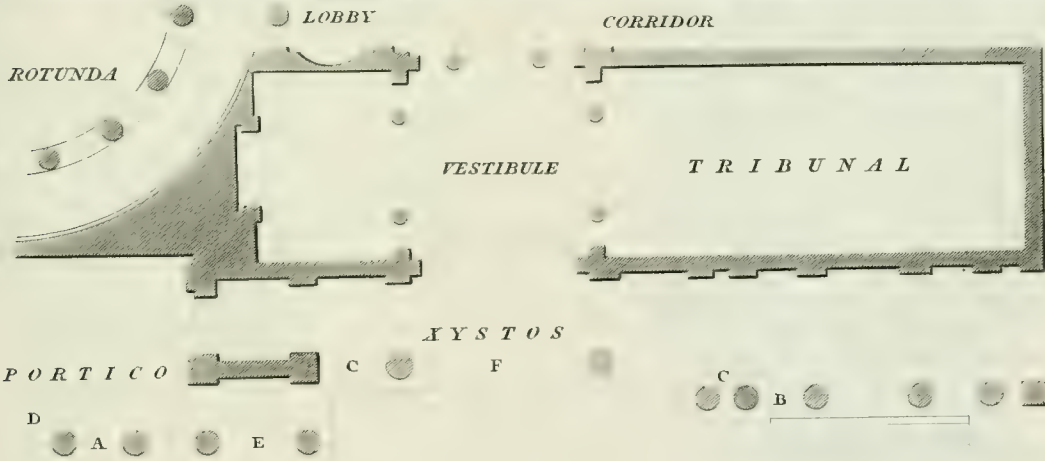


PLATE XI.

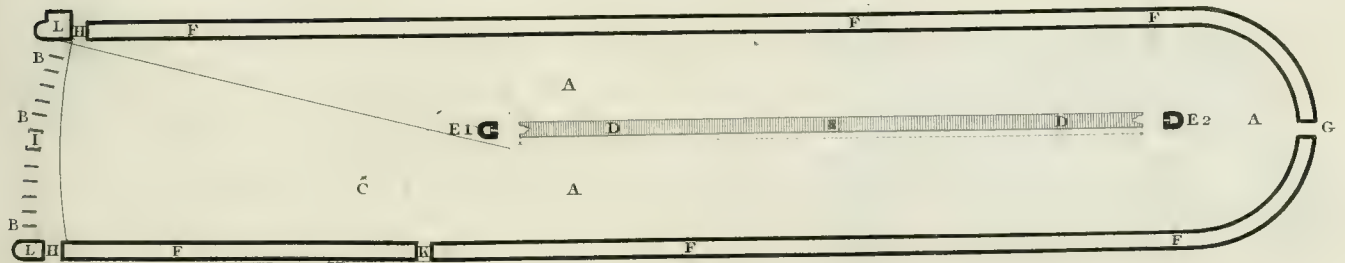
BASILICA



XYSTOS

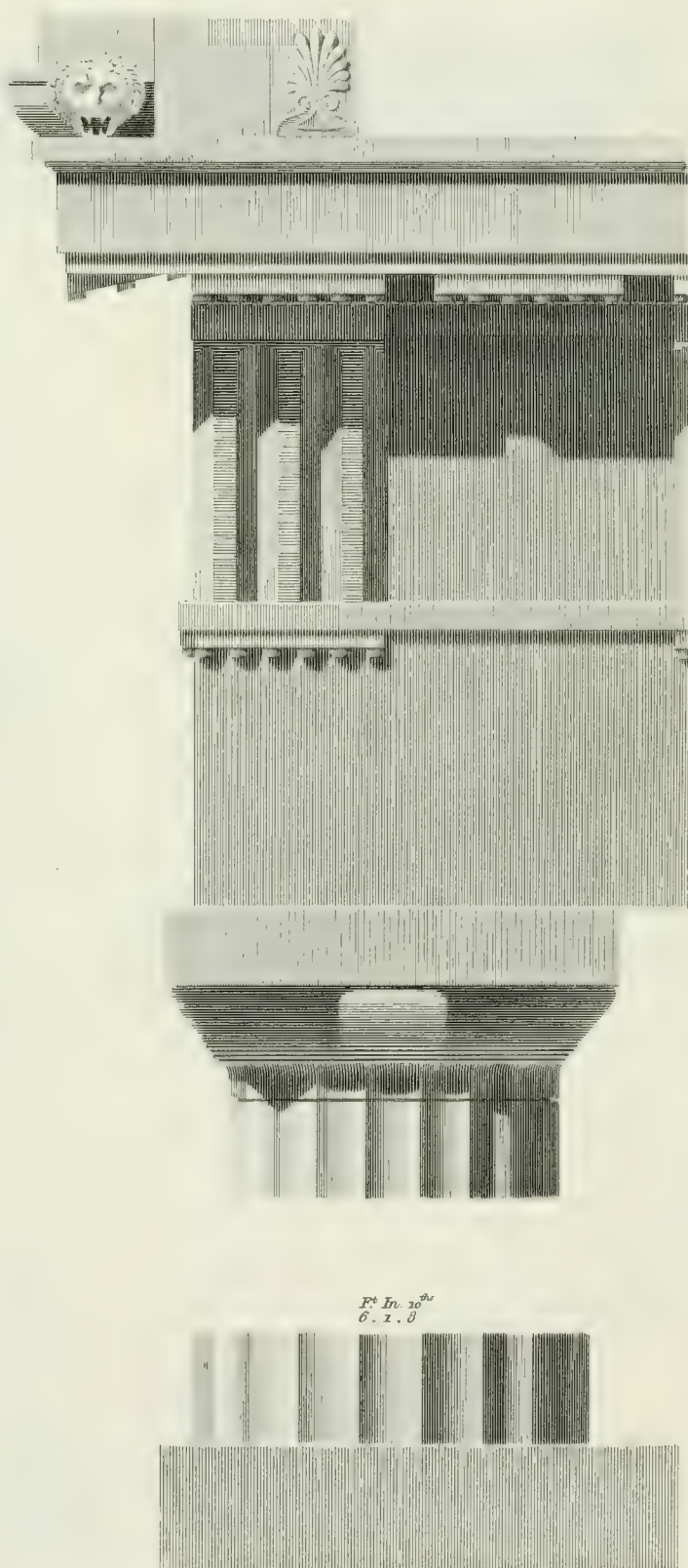
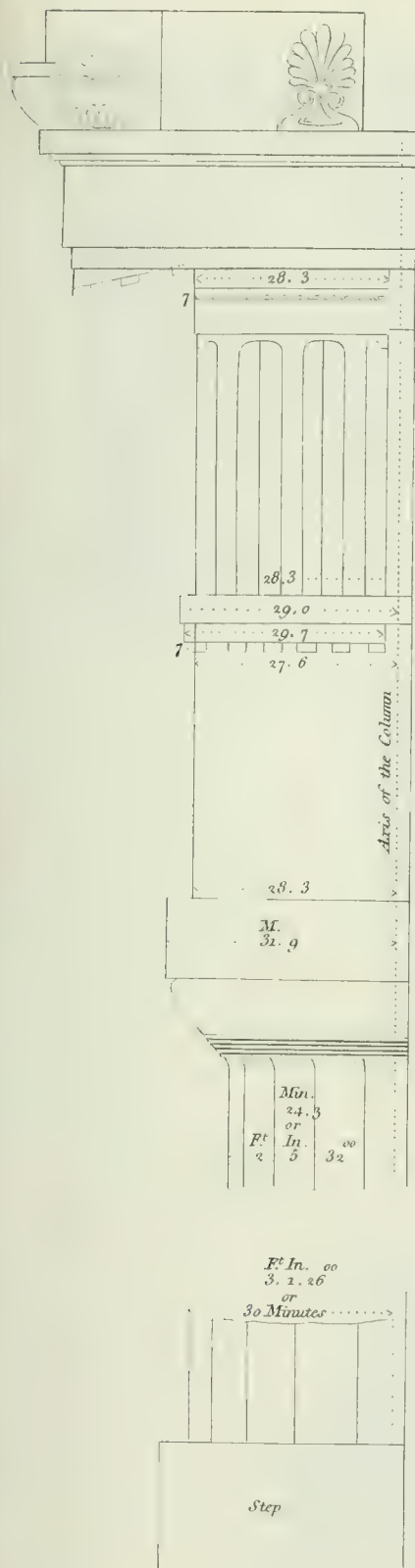
CIRCUS OF CARACALLA.

PLATE XII.





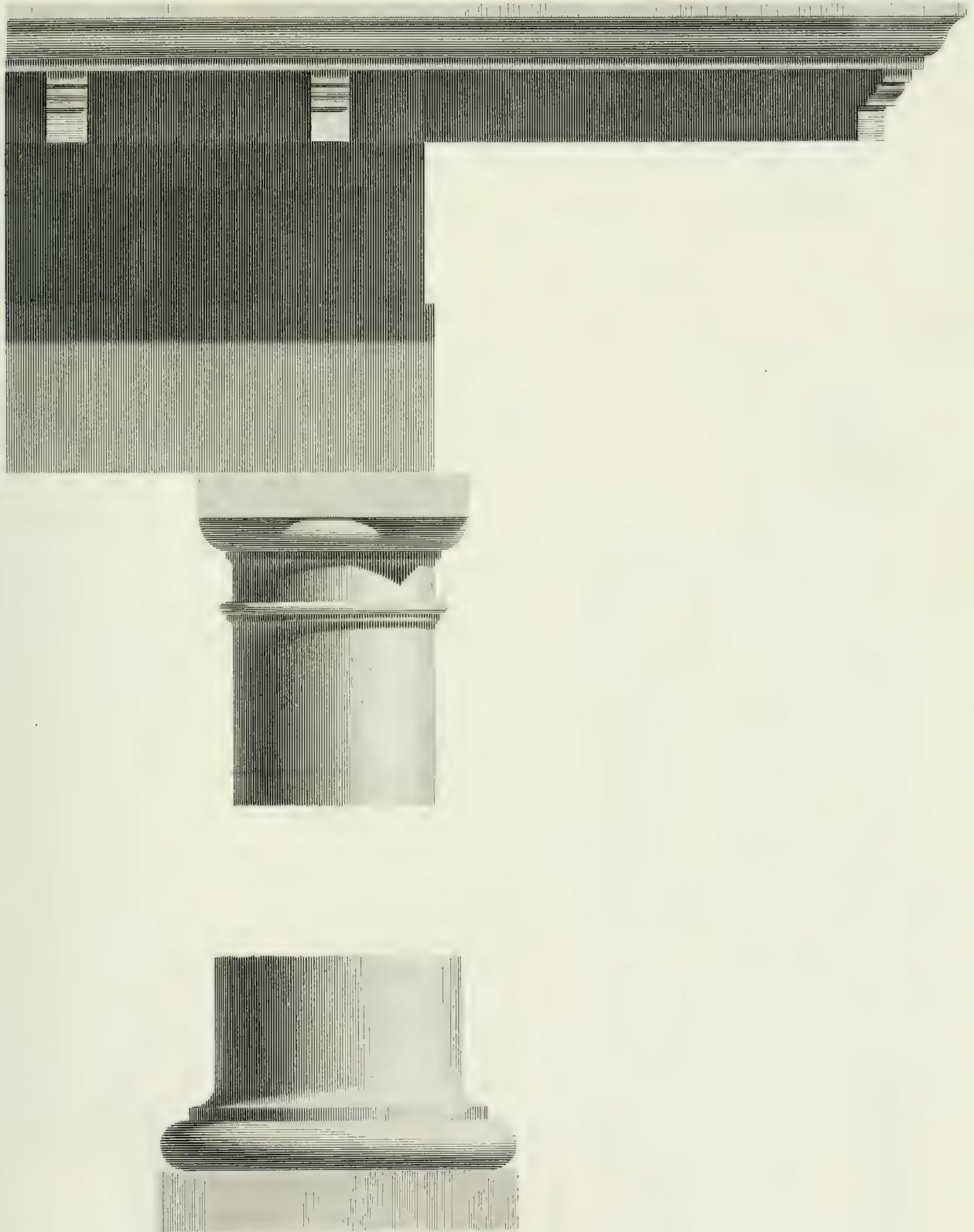
THE DORIC ORDER, FROM THE TEMPLE OF MINERVA CALLED THE PARTHENON.

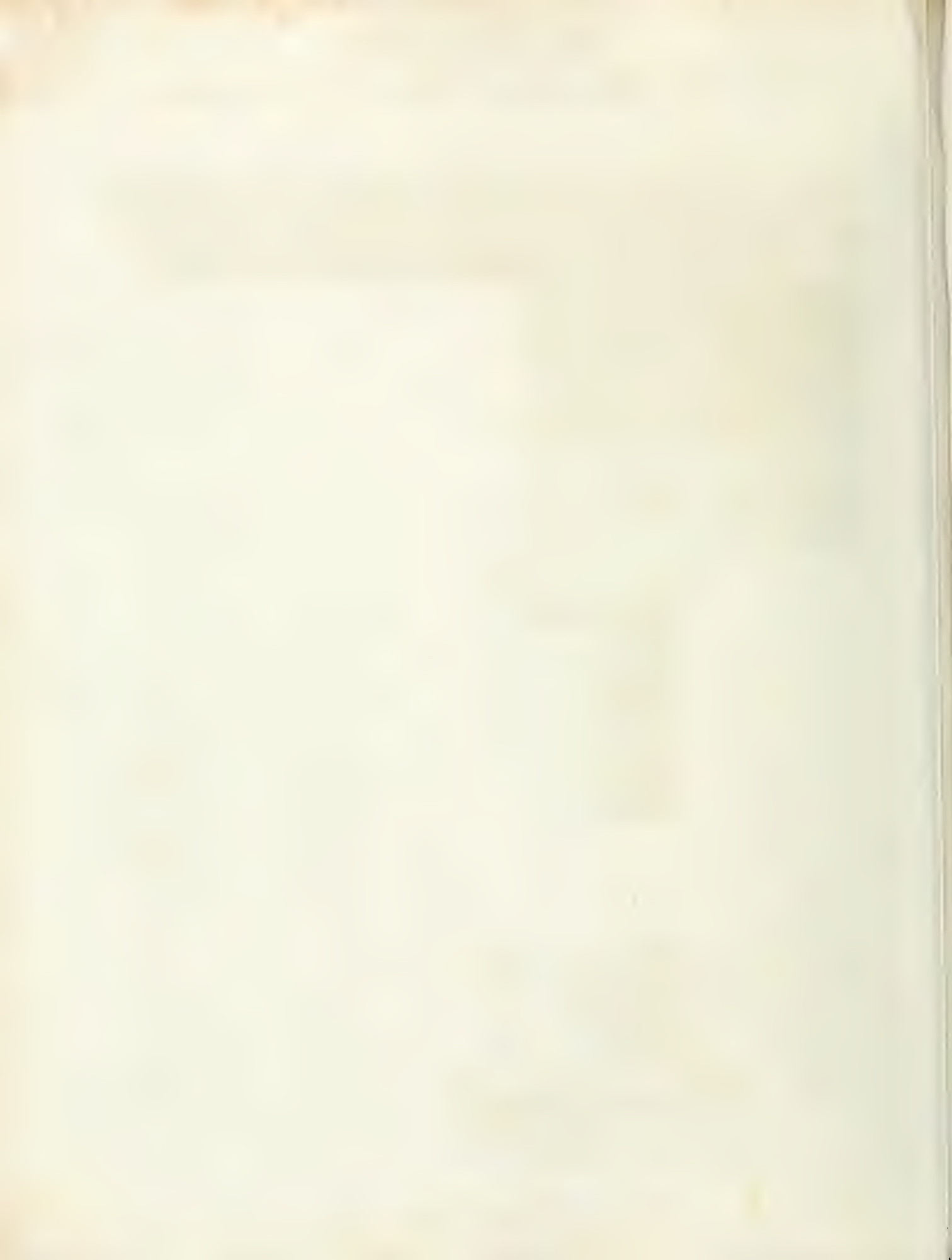


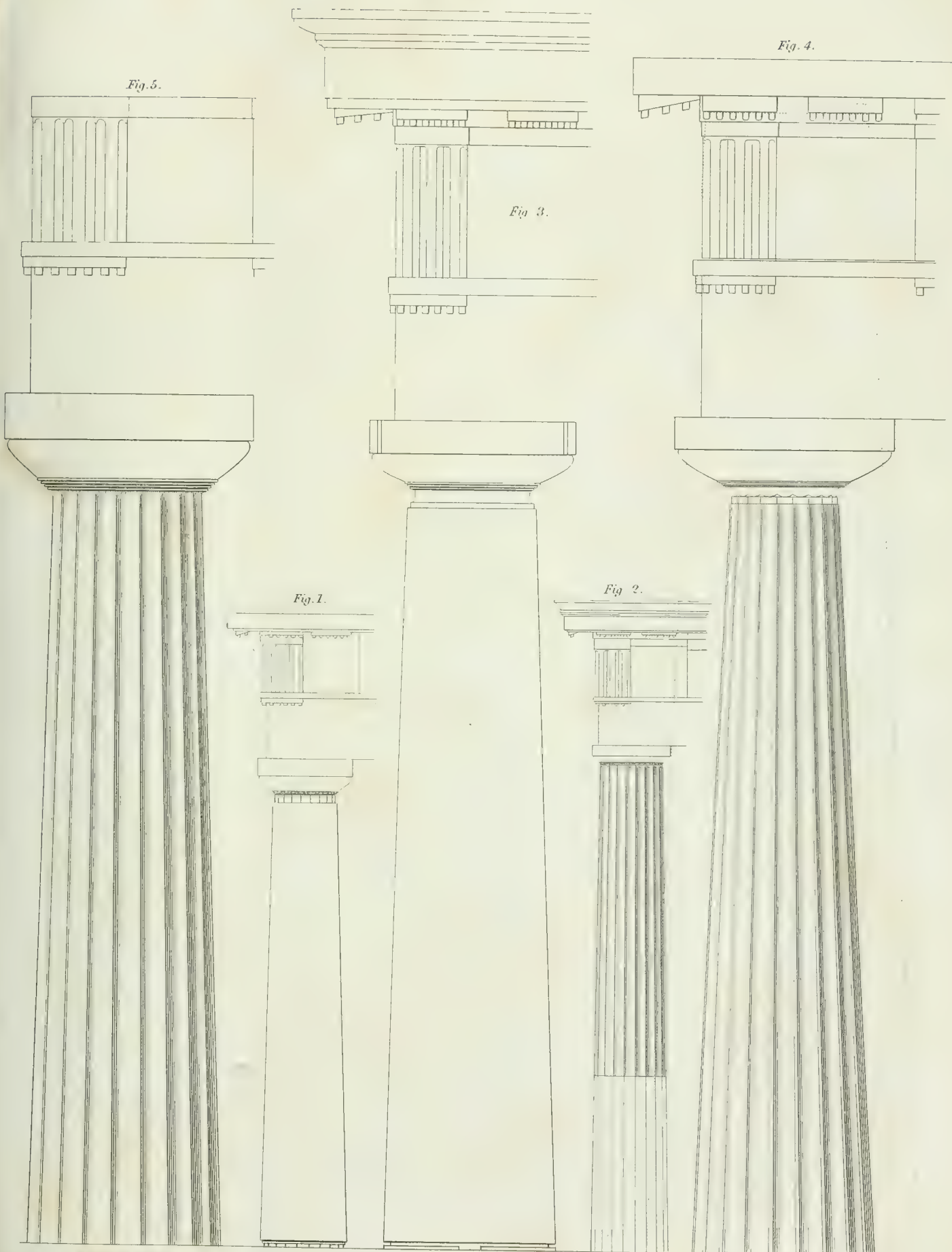




THE TUSCAN ORDER, FROM THE CHURCH IN COVENT GARDEN.







Temple at Selinus.

Temple at Delos.

Temple at Aegesta.

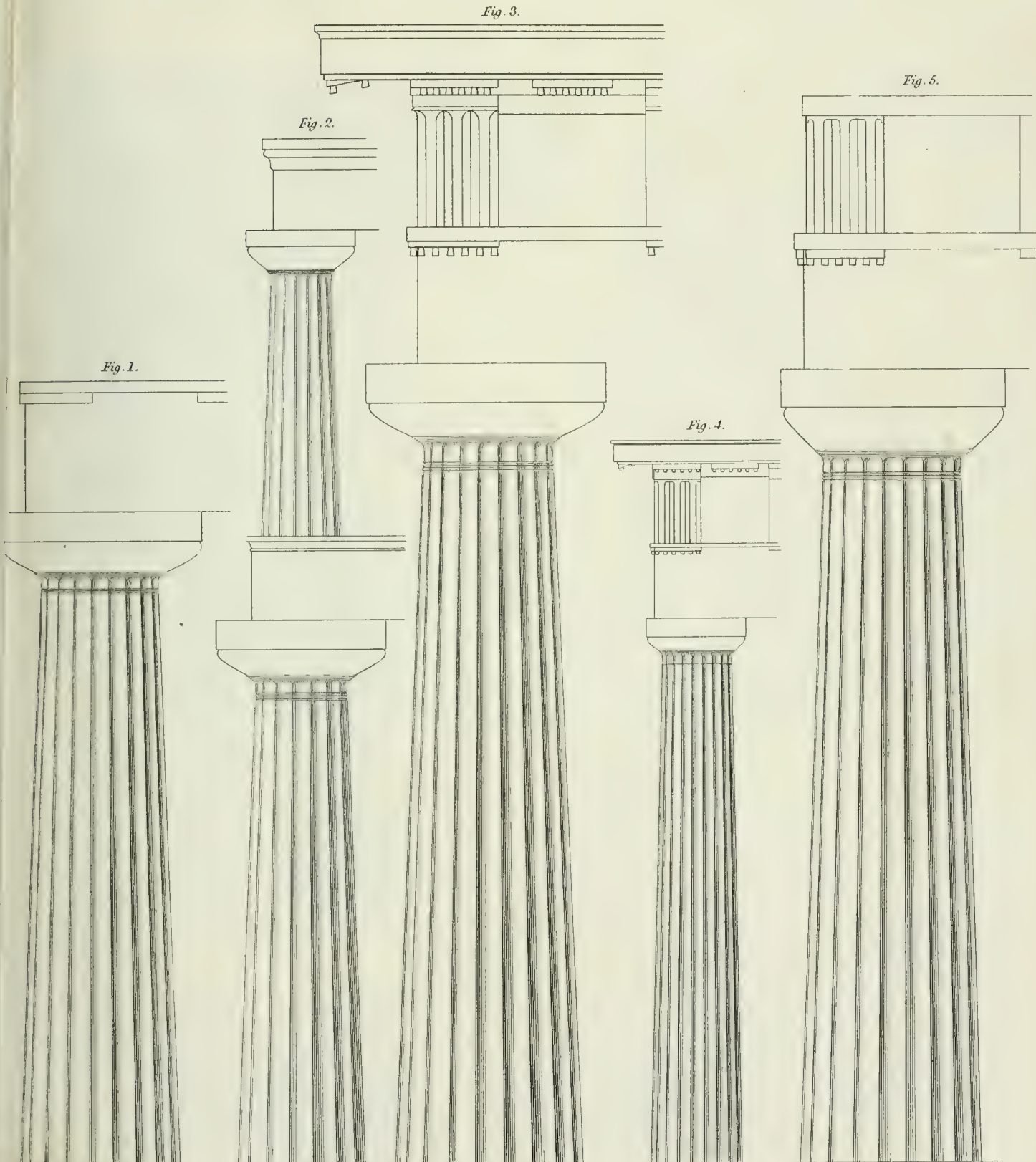
Temple of Philip  
at Delos.

Temple of Jupiter at Selinus.





DORIC.



Temple of Corinth.

Hypaethral Temple at Paestum.

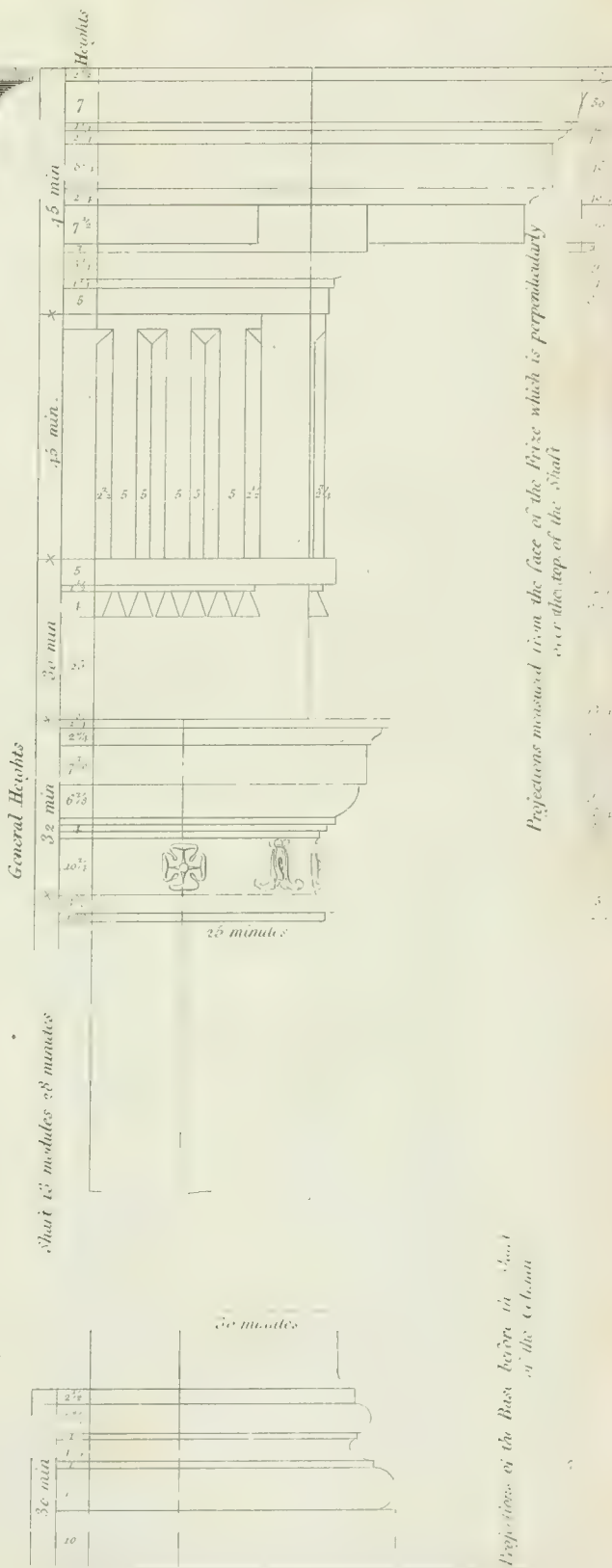
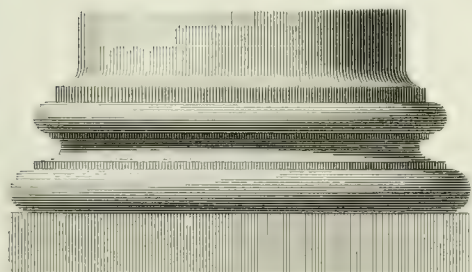
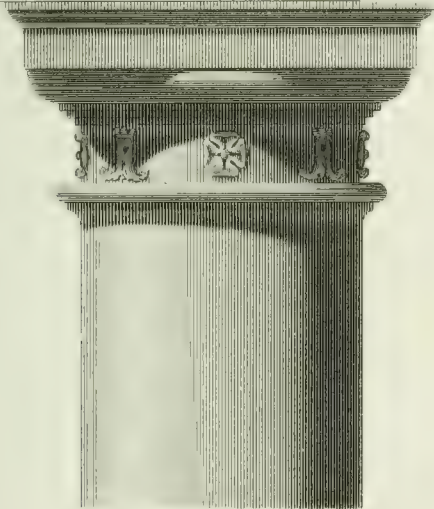
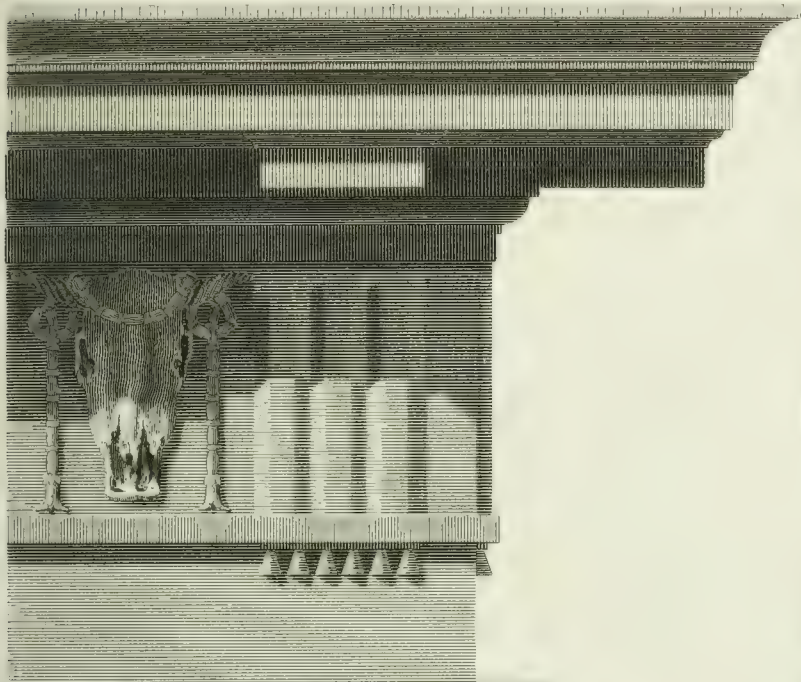
Hypaethral Temple at Paestum.

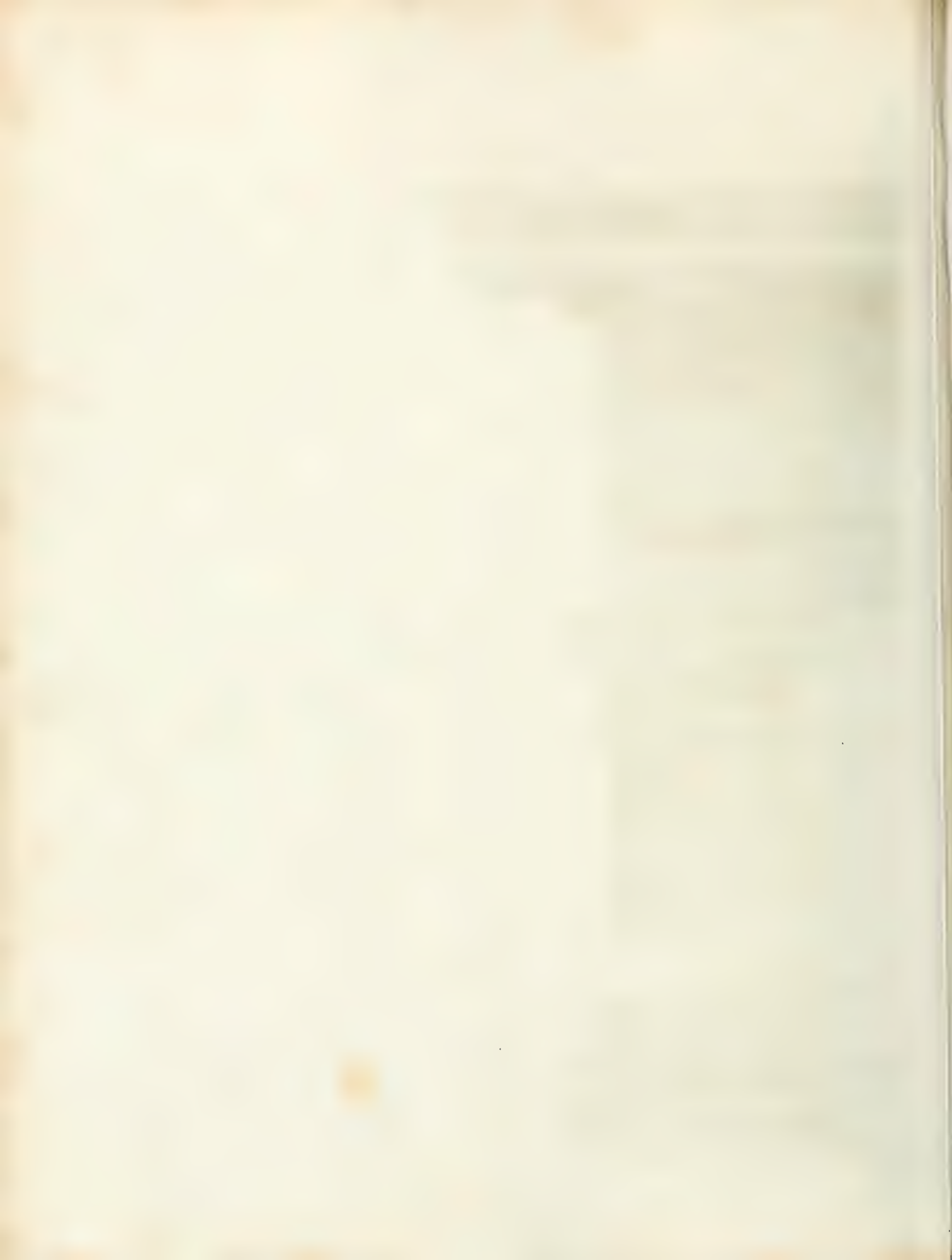
Temple of Minerva at Sunium.

Temple of Minerva at Syracuse.



THE DORIC ORDER ACCORDING TO SIR W<sup>m</sup> CHAMBERS.







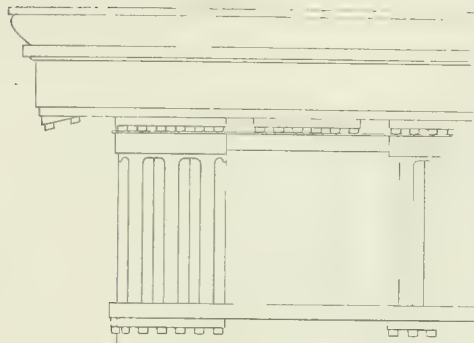


Fig. 5.

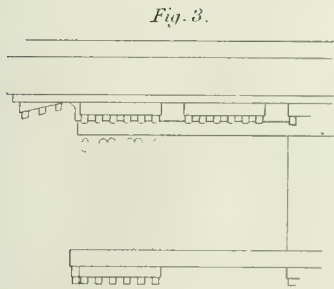


Fig. 3.

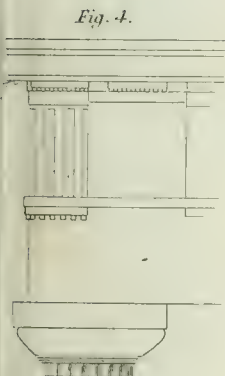
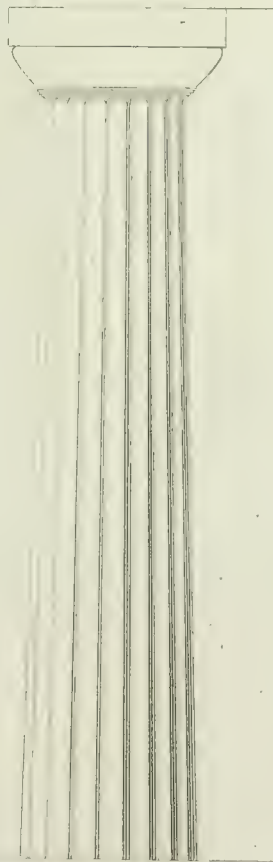
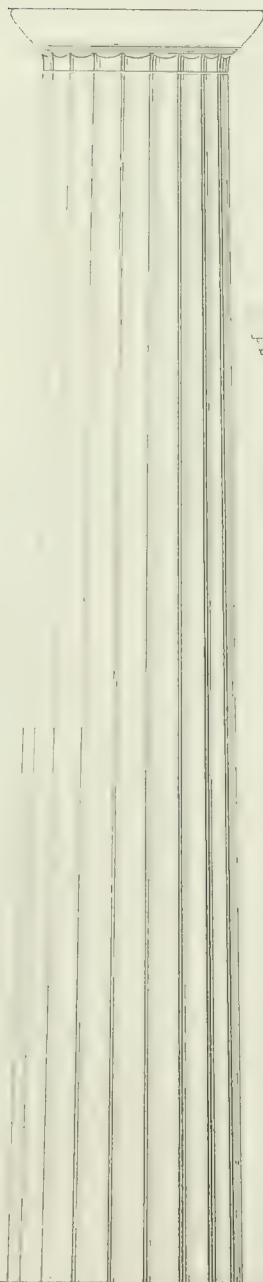


Fig. 4.



Temple of Concord  
at Agrigentum.



Temple of Minerva  
at Athens.

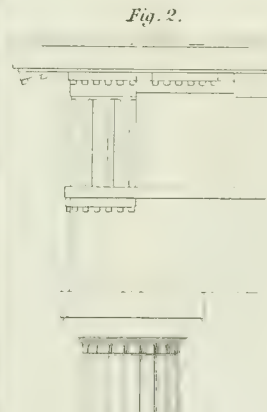
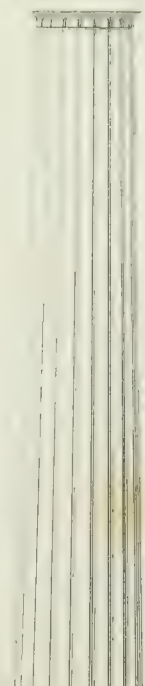


Fig. 2.



Temple of Theseus  
at Athens.

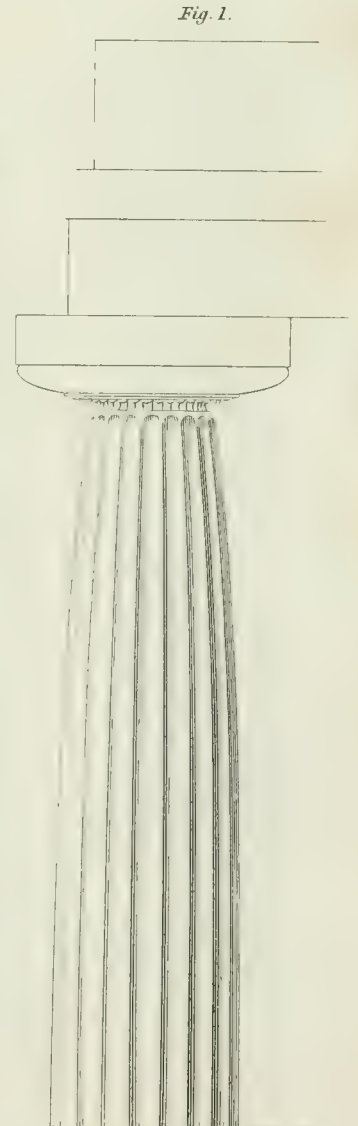


Fig. 1.

Pseudo dipteral Temple  
at Paestum.

Temple of Jupiter Panellenius  
in Aegina.



DORIC.

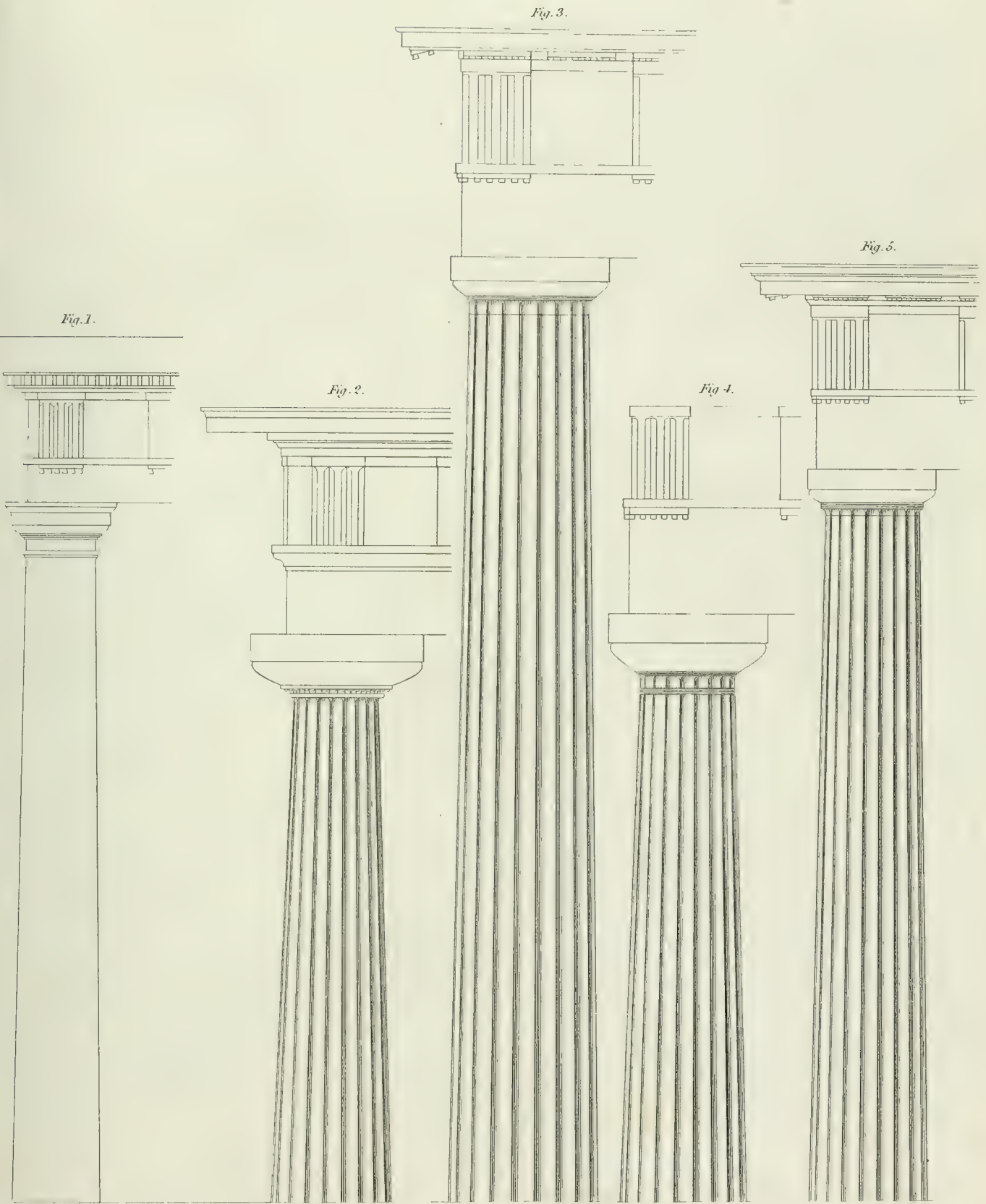


Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

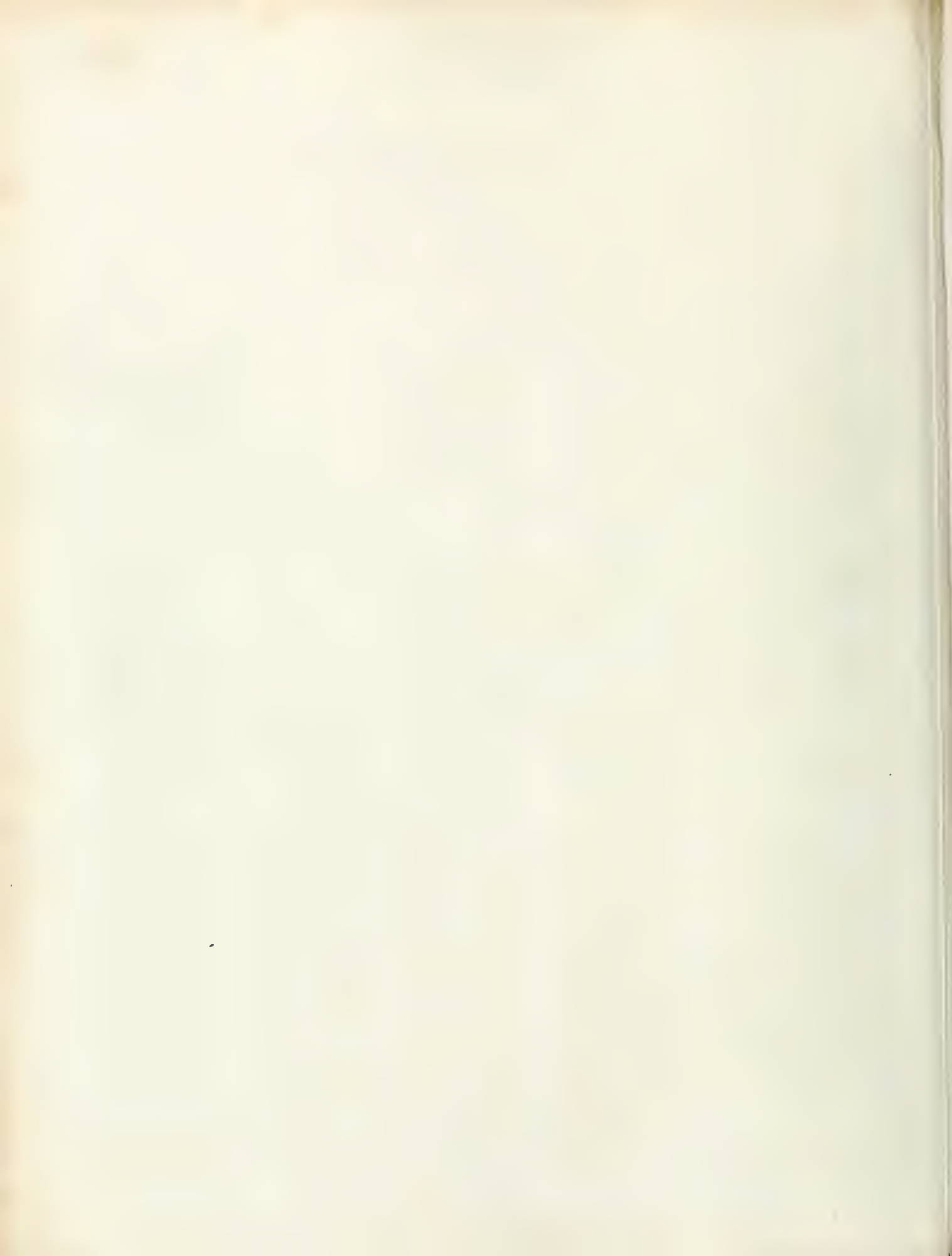
Theatre of Marcellus at Rome.

Hexastyle Temple at Paestum.

Temple of Jupiter Nemoeus between Argos & Corinth.

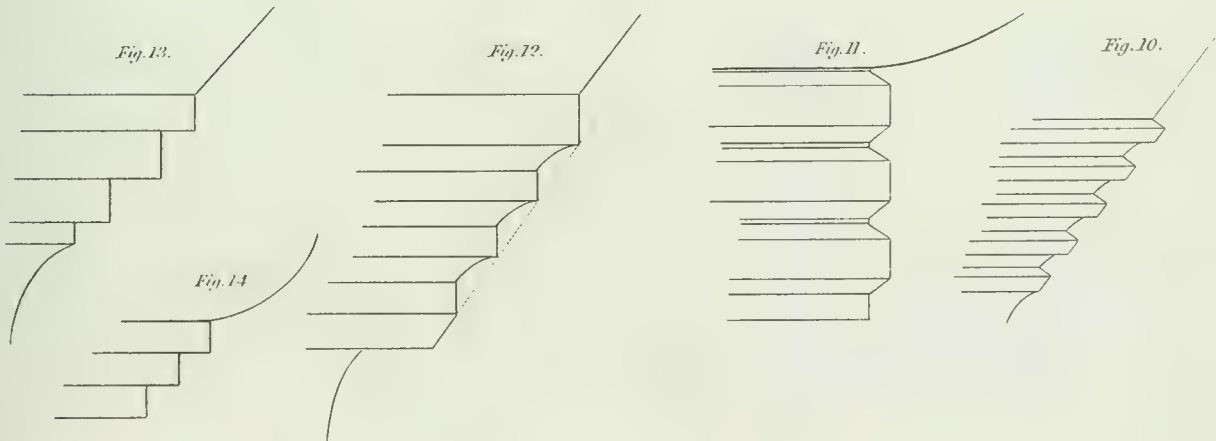
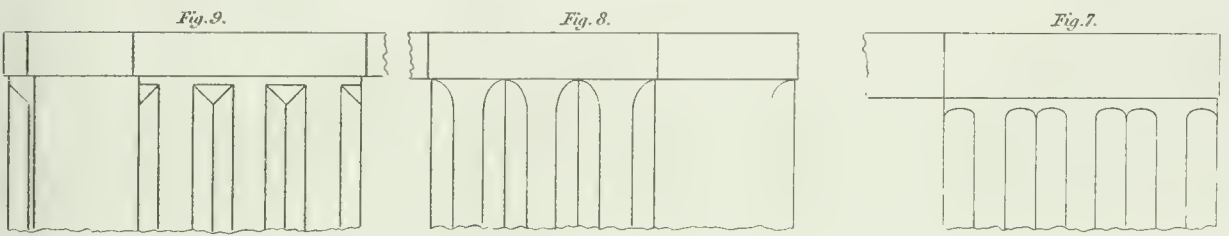
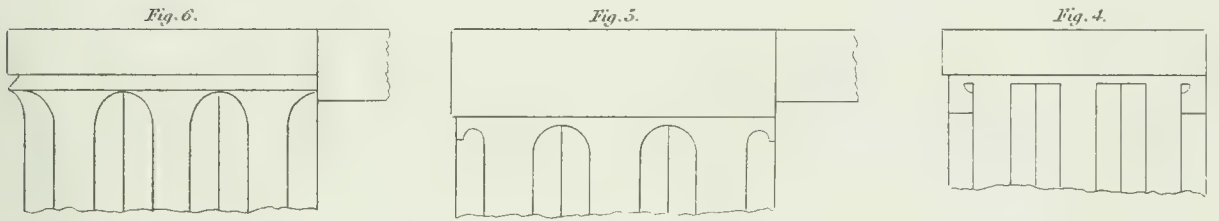
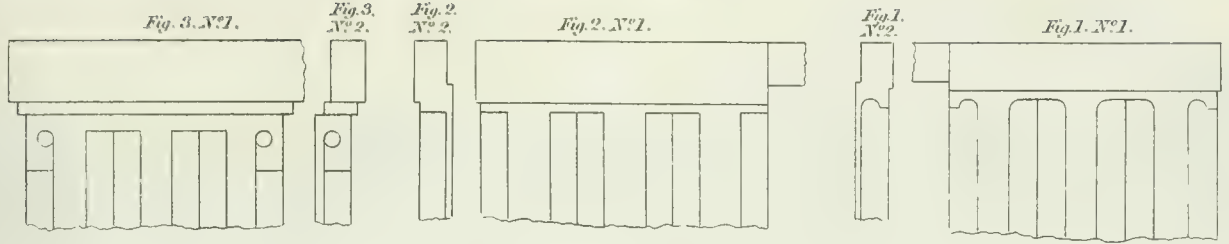
Temple of Juno Lucina at Agrigentum.

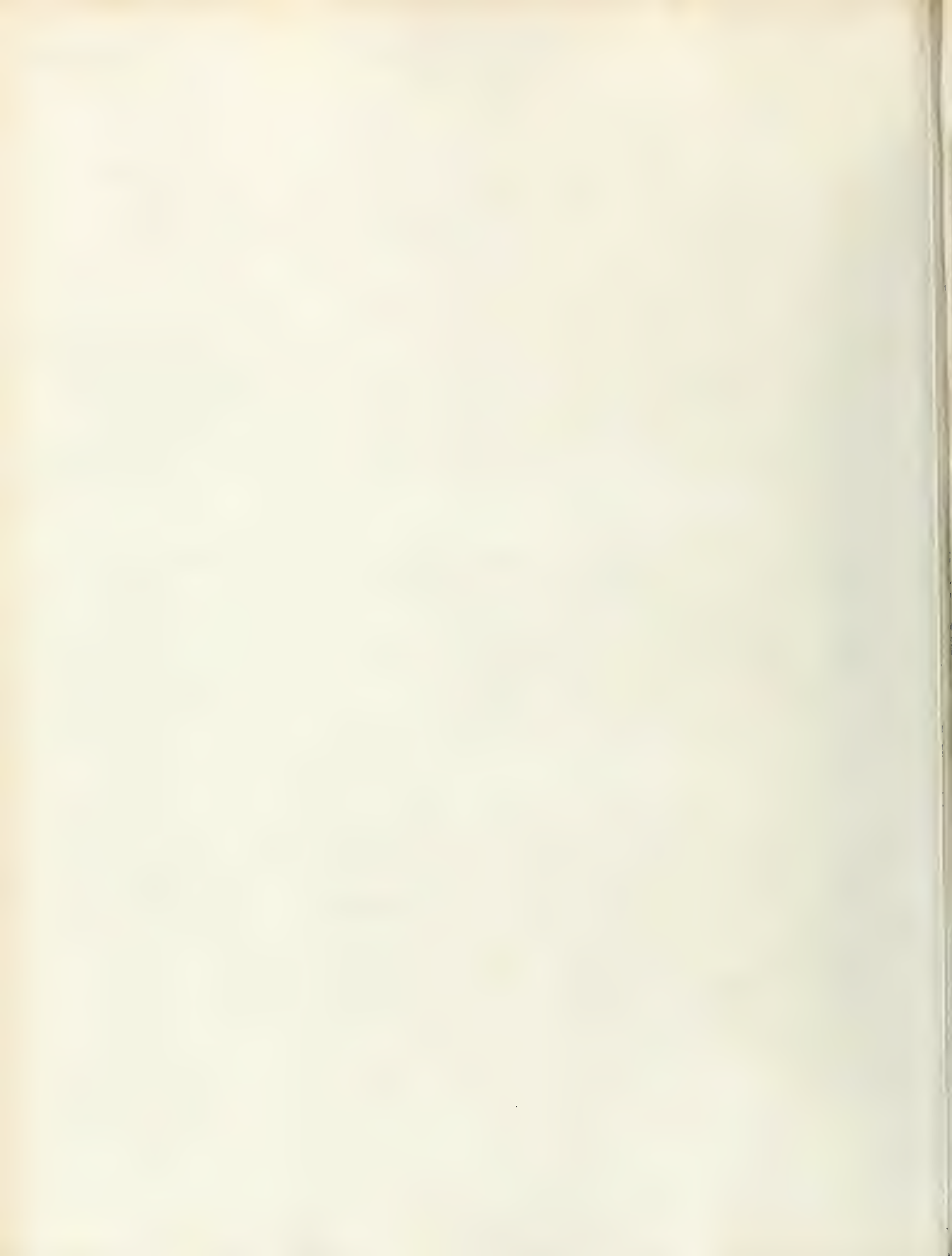
The Agora at Athens.



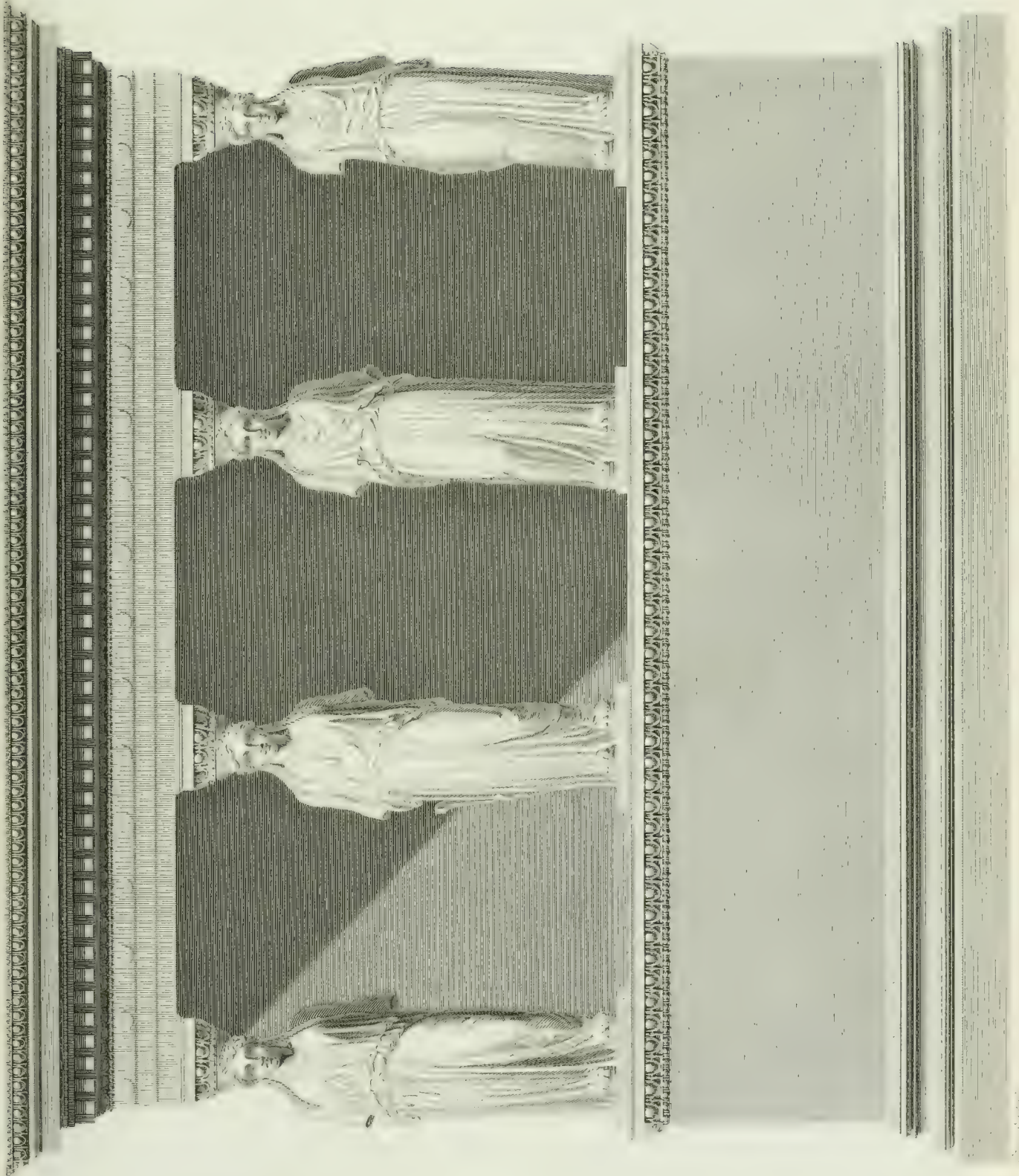


ARCHITECTURE.  
DORIC ORDER.



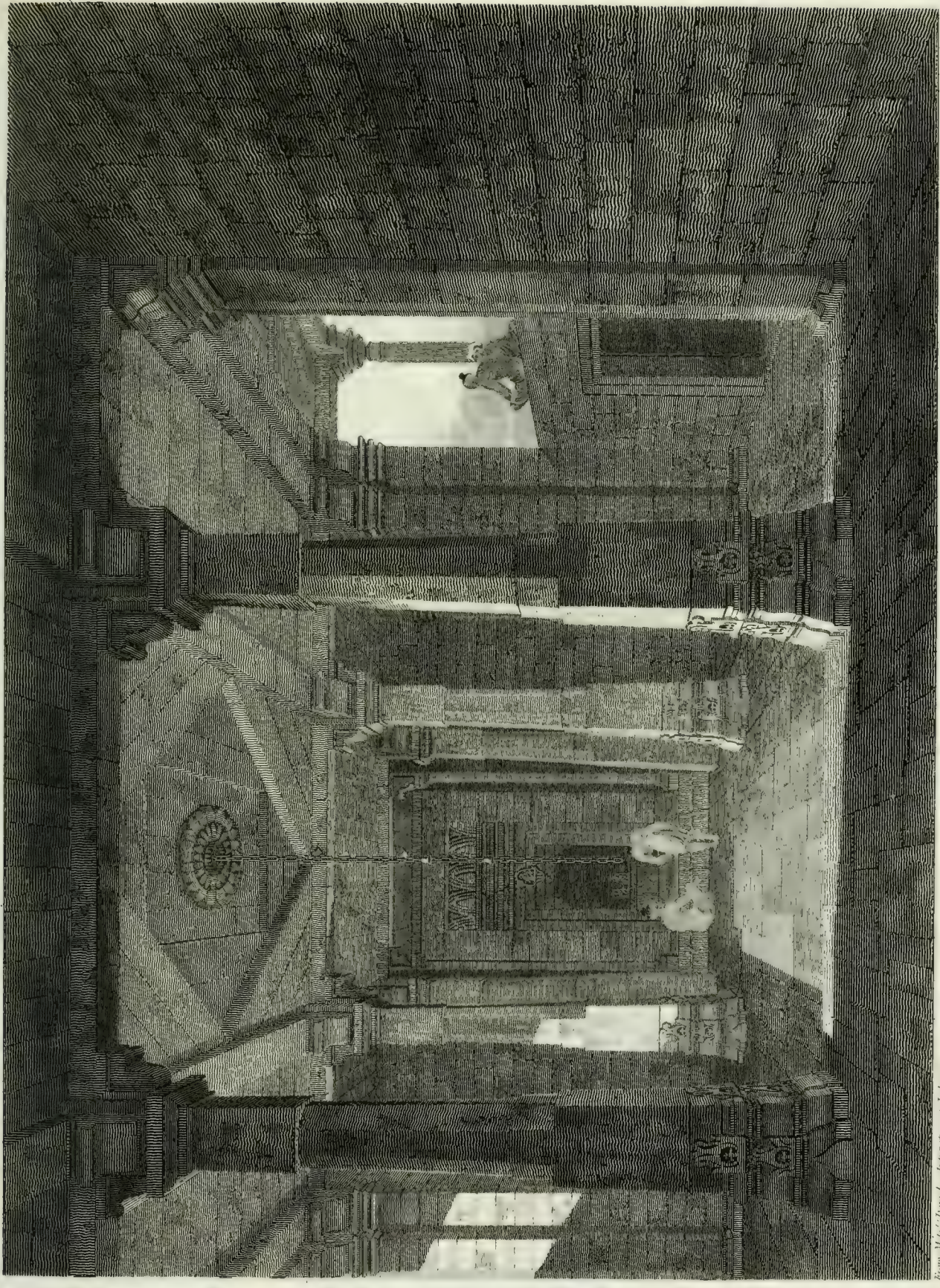


THE TEMPLE OF PLACIDUS AND ALPHEUS.









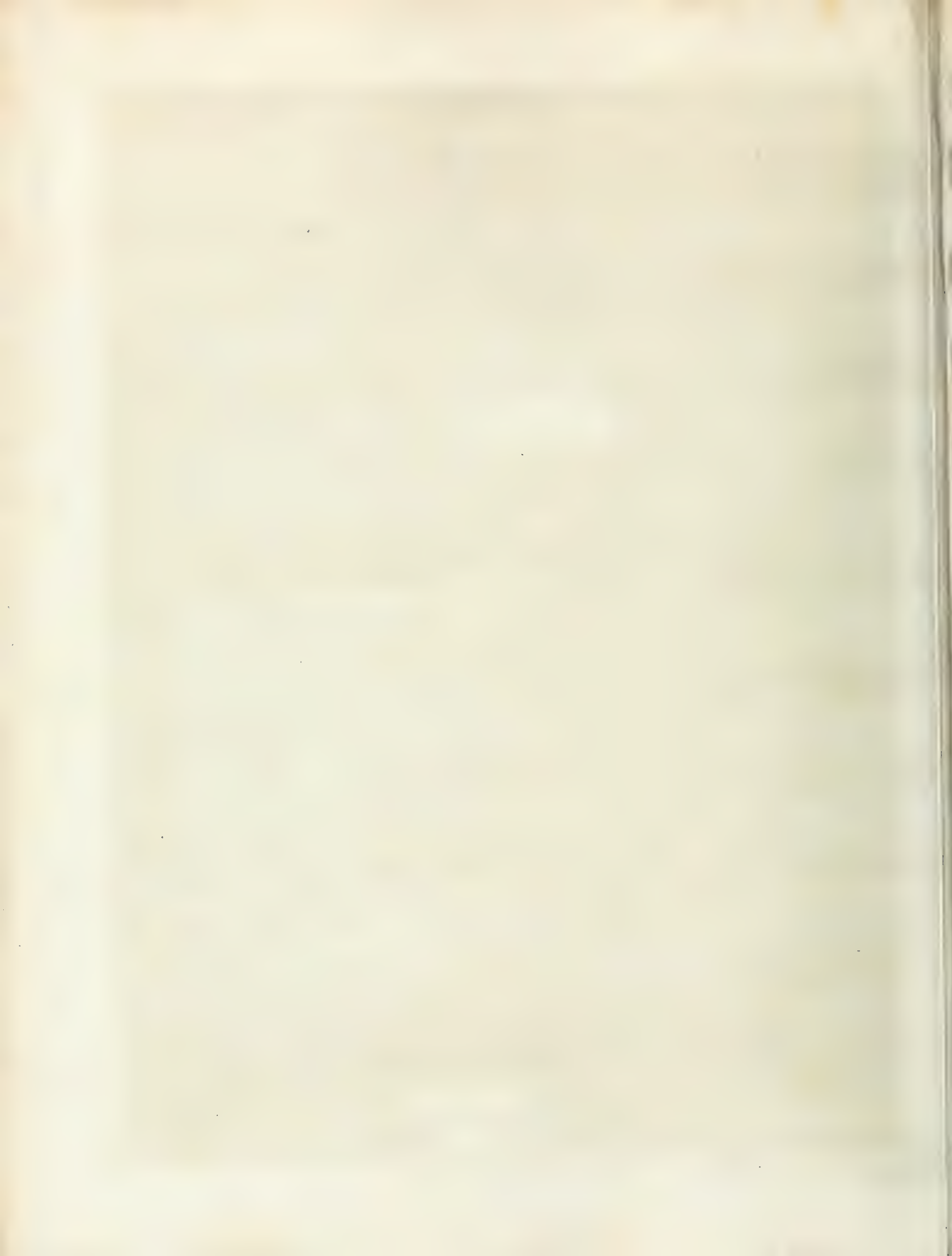
Engraved by H. G. Lewis.

From Miss Daniell's *Travels in India*.

PART OF THE INTERIOR OF AN HINDOO TEMPLE, AT DEO, IN BAHAR.

Published in the *Art Journal*, May 1851, by Longman & Co. Little Street, London.





ARCHITECTURE.

MOULDINGS &c.



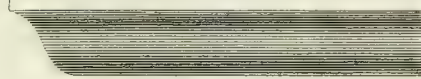
Fillet Listel Annulet or Square.



Astragal or Bead.

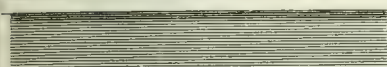


Cyma, Cyma Recta or Cymatian.

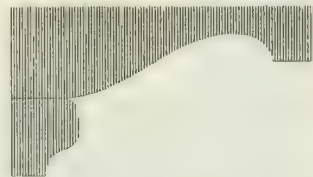


Scotia or Trochilos.

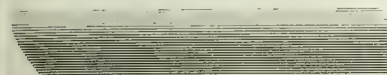
Canteliver.



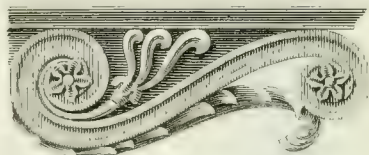
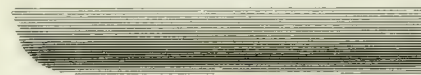
Listel and Fascia.



Corinthian Modillion.



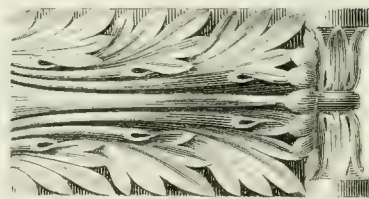
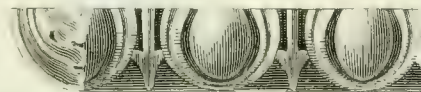
Echinus Ovolo or Quarter Round.



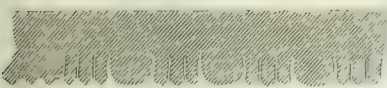
Soffit of a Modillion.



Echinus carved.



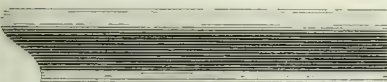
Panel between the Corinthian Modillions in the Soffit of the Cornice.



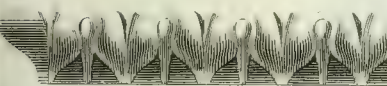
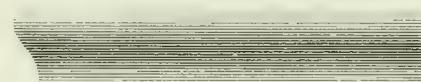
Sections of the Echinus.



ROMAN.



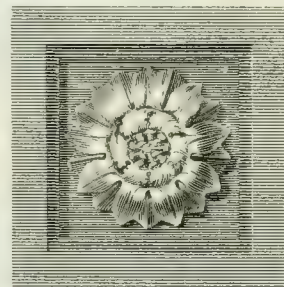
Lacuna, Cava, Tachen or Quai.



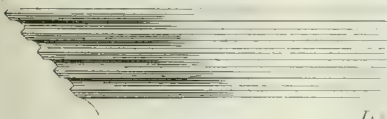
Talen carved.



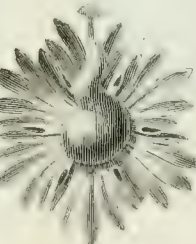
Astragal or Bead carved.



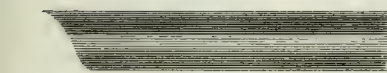
Flower in the



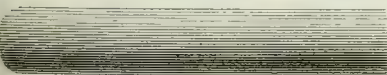
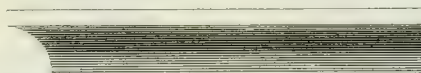
Doric Annulets.



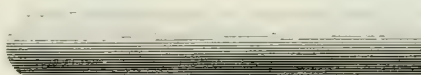
Corinthian Abacus.



Cuvete or Hellen.



Torus.







JOINERY.

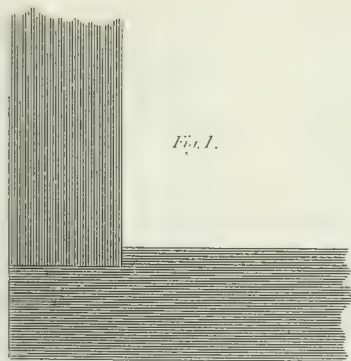


Fig. 1.

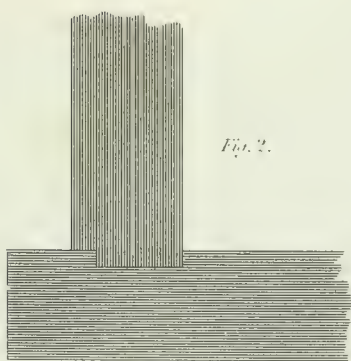


Fig. 2.

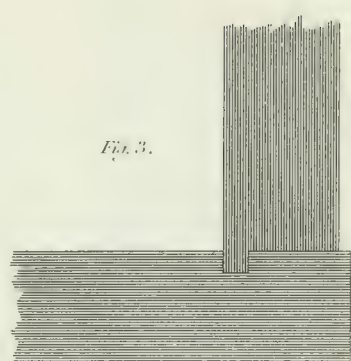


Fig. 3.

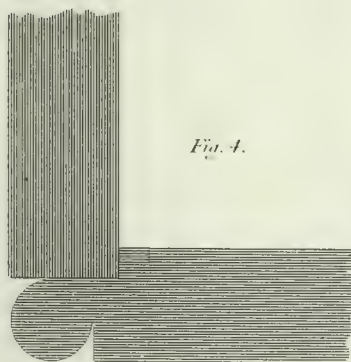


Fig. 4.

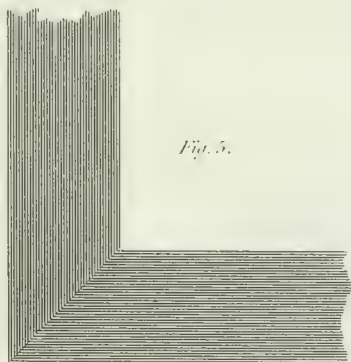


Fig. 5.

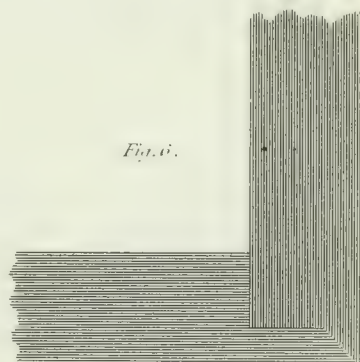


Fig. 6.

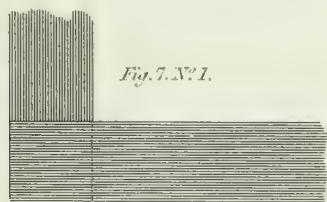


Fig. 7, No. 1.

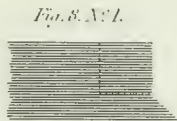


Fig. 8, No. 1.

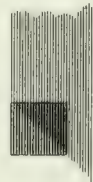
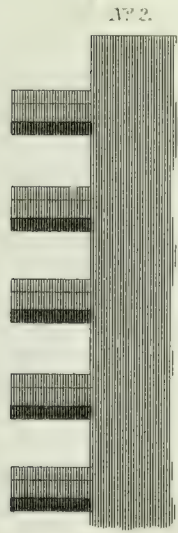


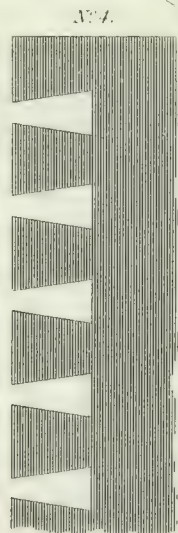
Fig. 8, No. 2.



No. 2.



No. 3.



No. 4.



Fig. 8, No. 3.



Fig. 8, No. 4.

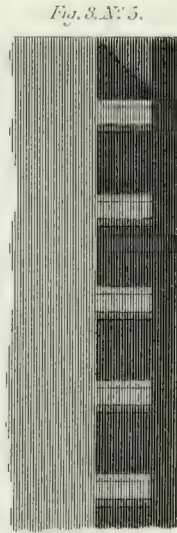


Fig. 8, No. 5.



JOINERY.

Fig. 1.

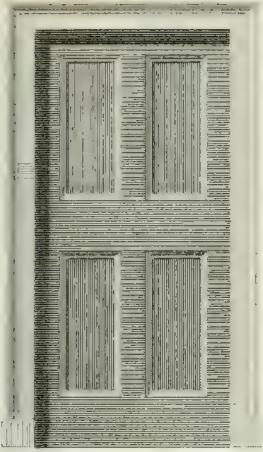


Fig. 2.

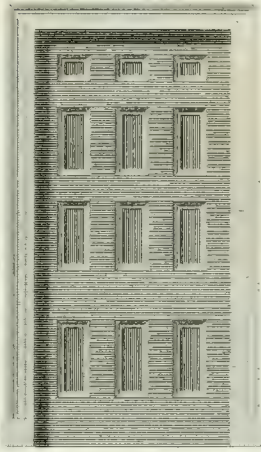


Fig. 3.



Fig. 4.

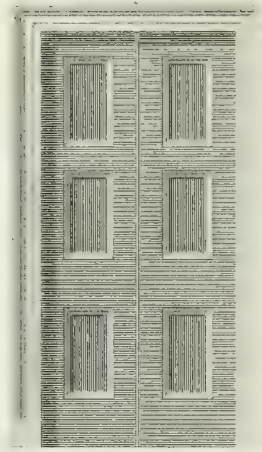


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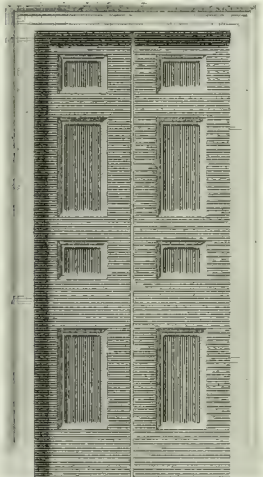


Fig. 6.

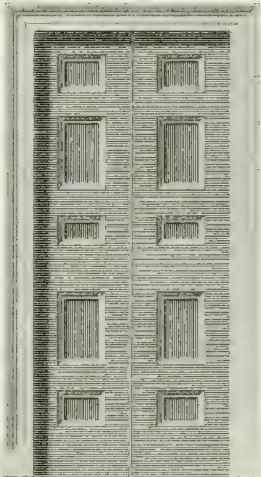


Fig. 7.

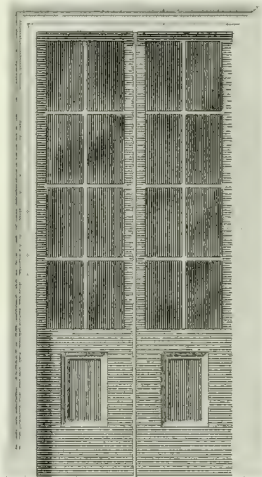


Fig. 8.

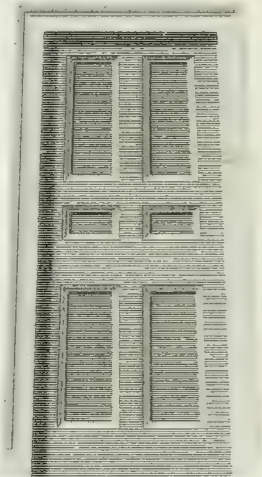


Fig. 9.

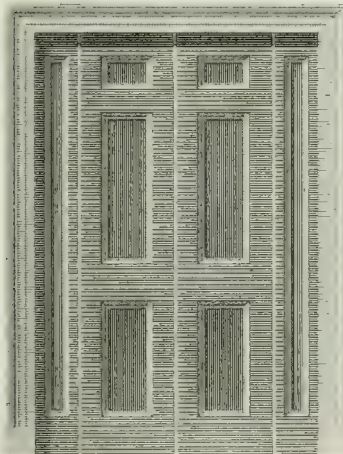


Fig. 10.

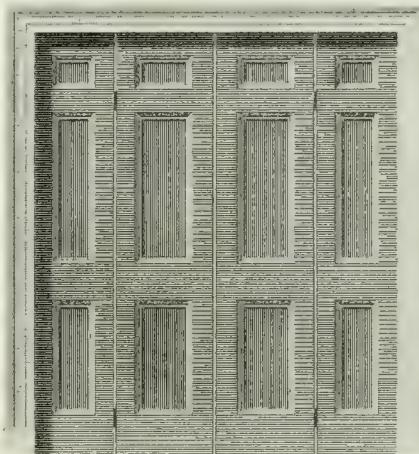


Fig. 11.

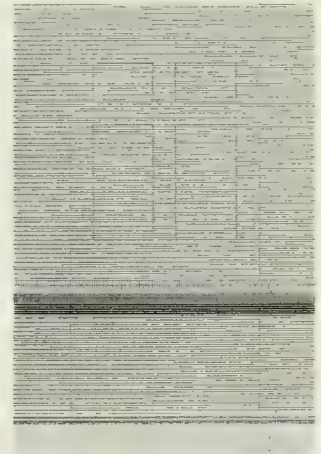






Fig. 3.

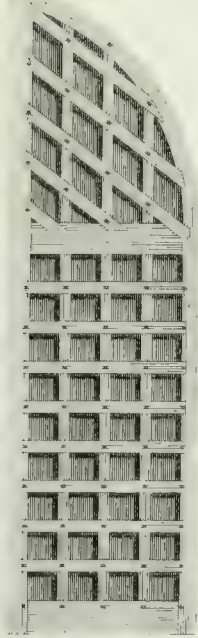


Fig. 2.

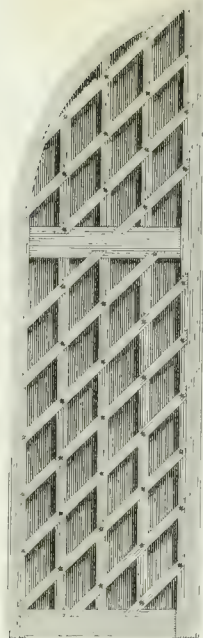


Fig. 1.

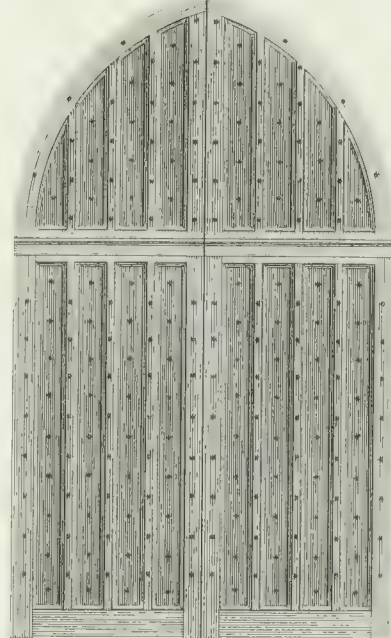


Fig. 4. N° 1.

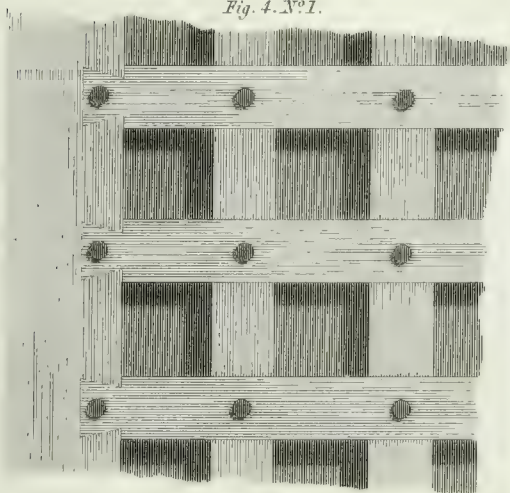


Fig. 5. N° 1.



Fig. 5. N° 2.

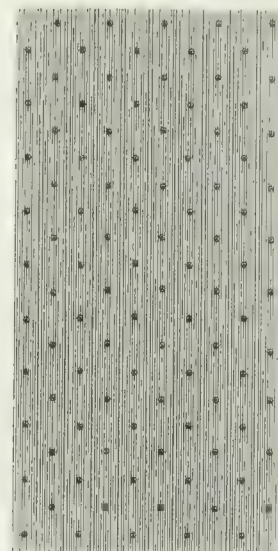
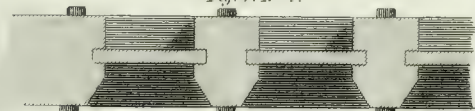
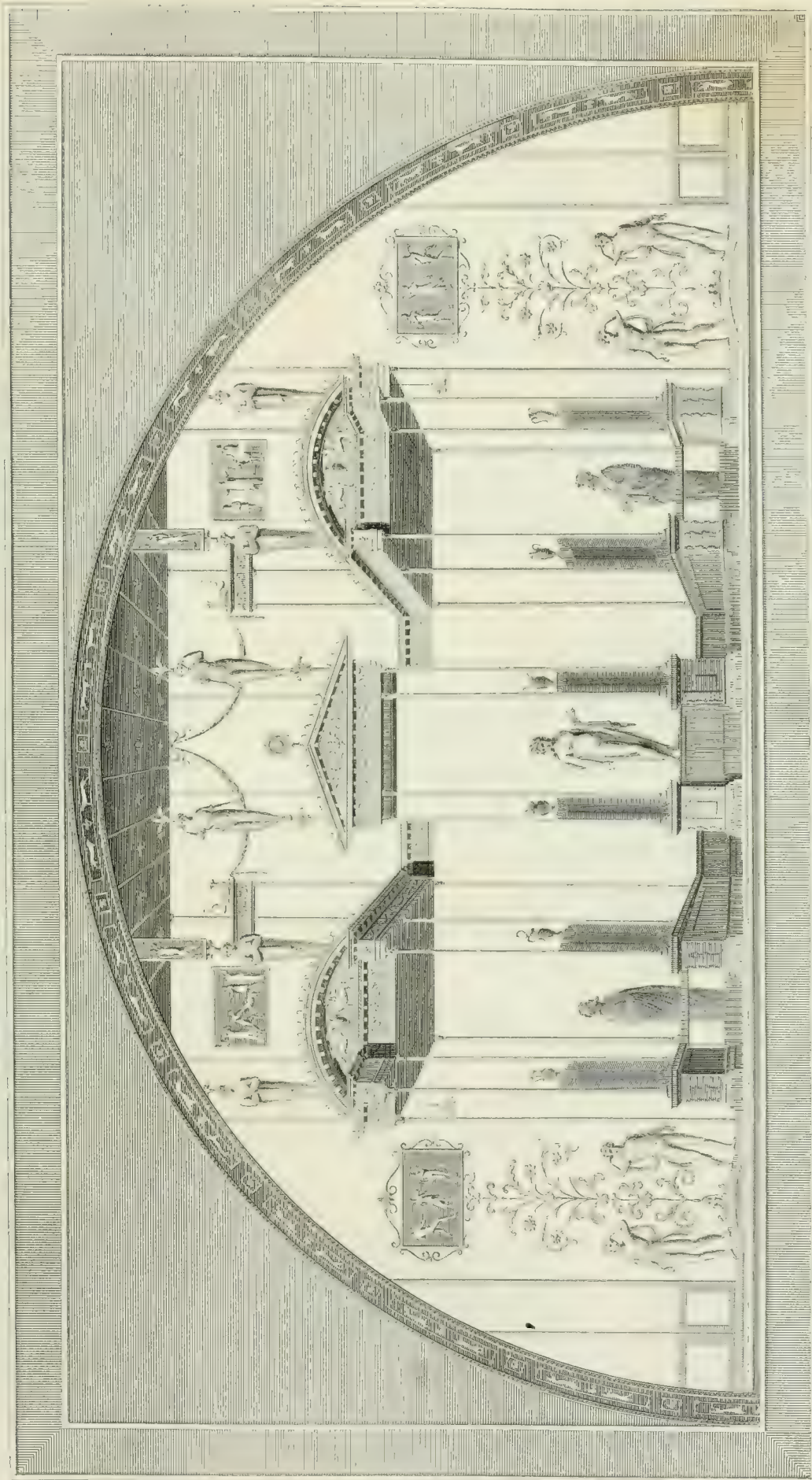


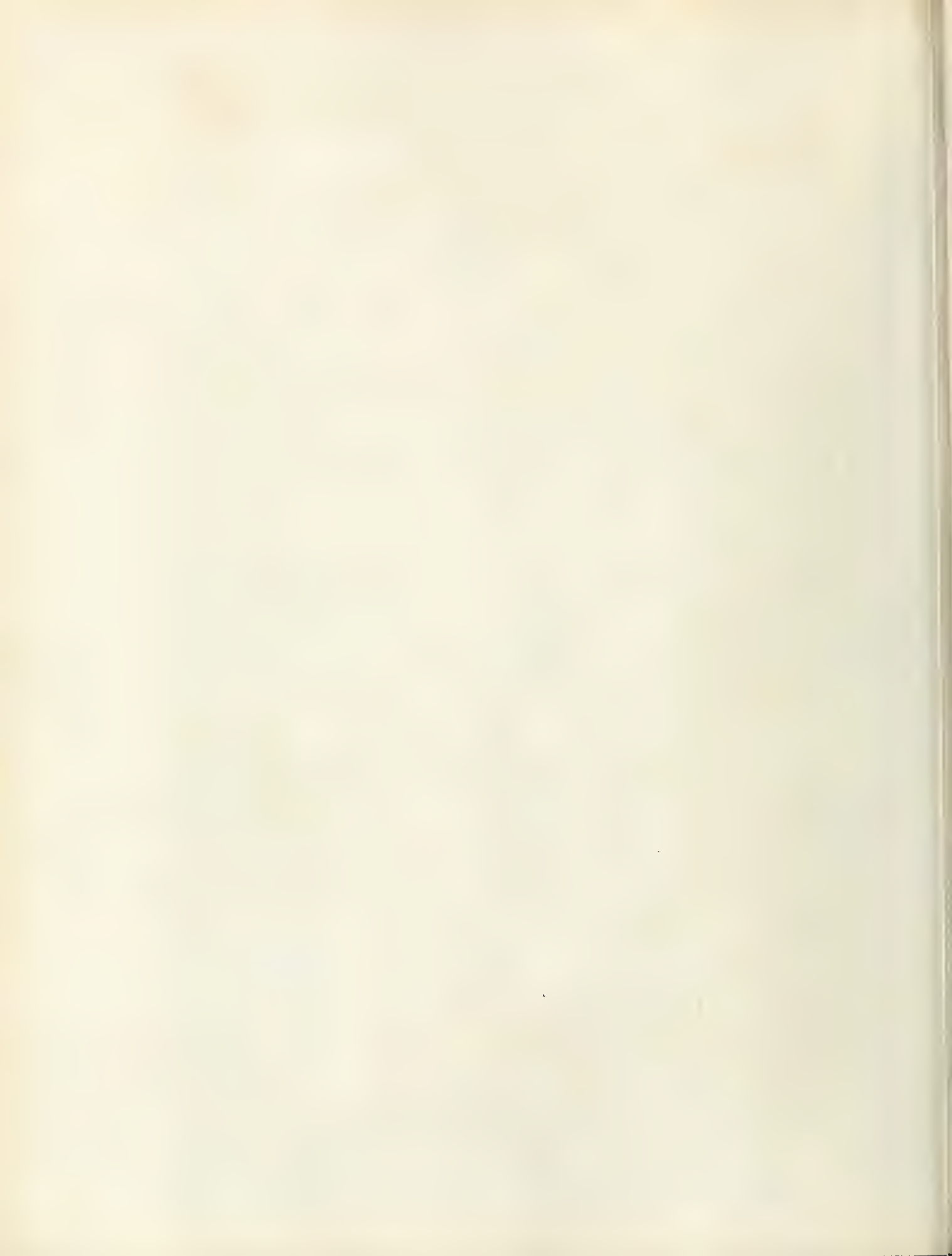
Fig. 4. N° 2.





PAINTING FROM THE BATHS OF TITUS.







B. G. Y. P. P. L. I. N. C. A. I. P. I. T. A. L. S.

Fig 1.

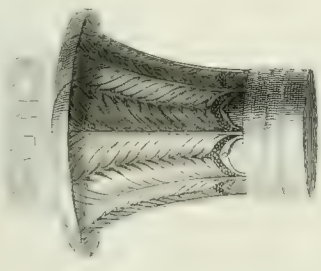


Fig 2.

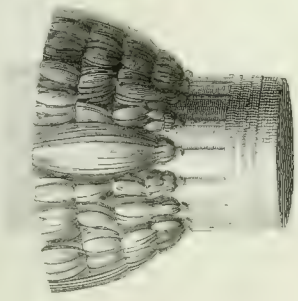


Fig 3.

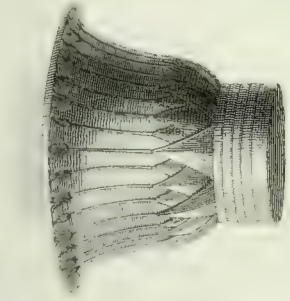


Fig 4.

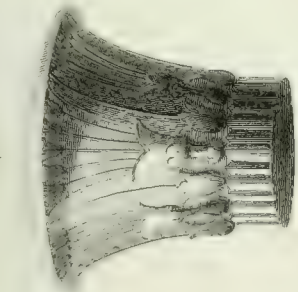


Fig 5.

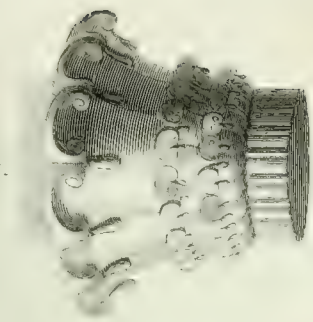


Fig 9.

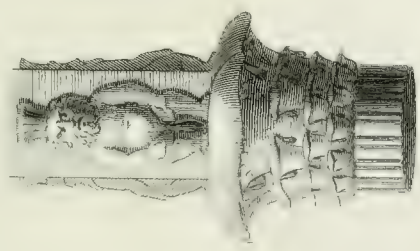


Fig 6. FRAGMENT.

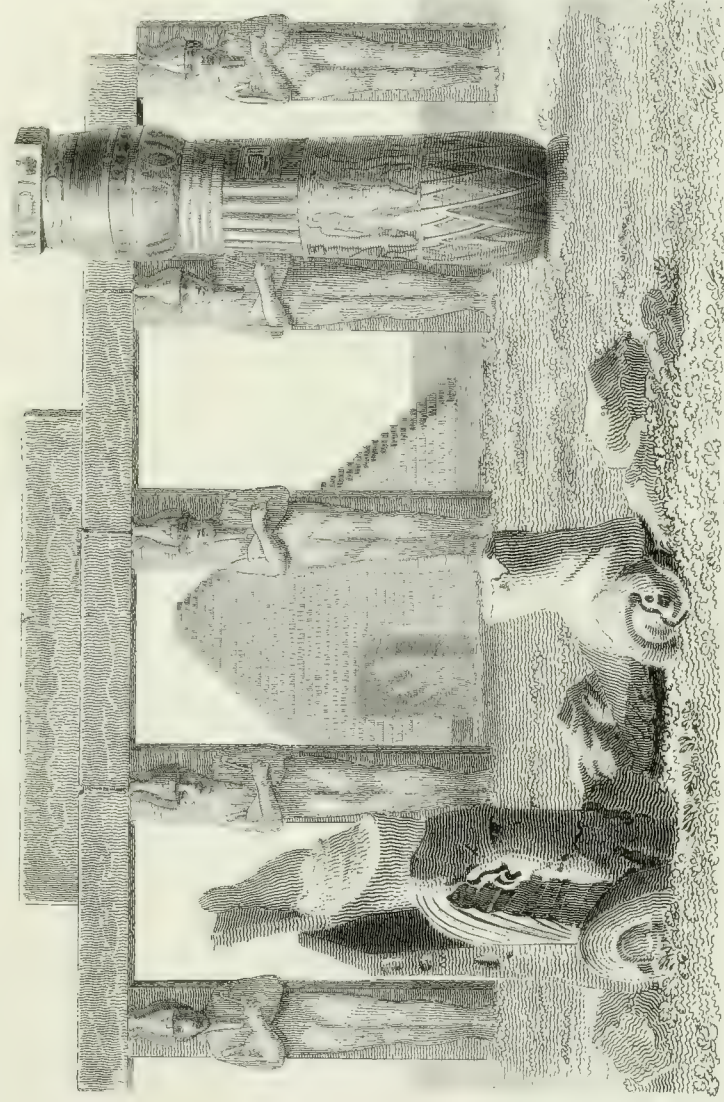


Fig 6.

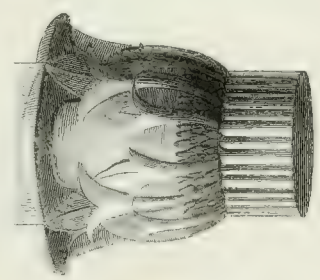


Fig 7.

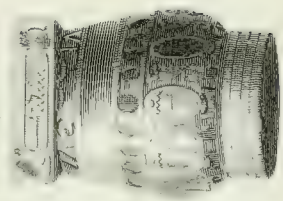
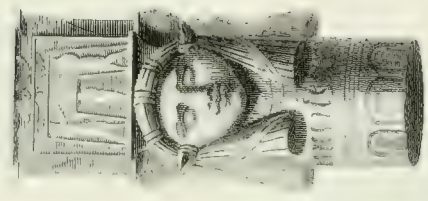


Fig 8.





CORINTHIAN AND COMPOSITE CAPITALS.

Fig. 1.

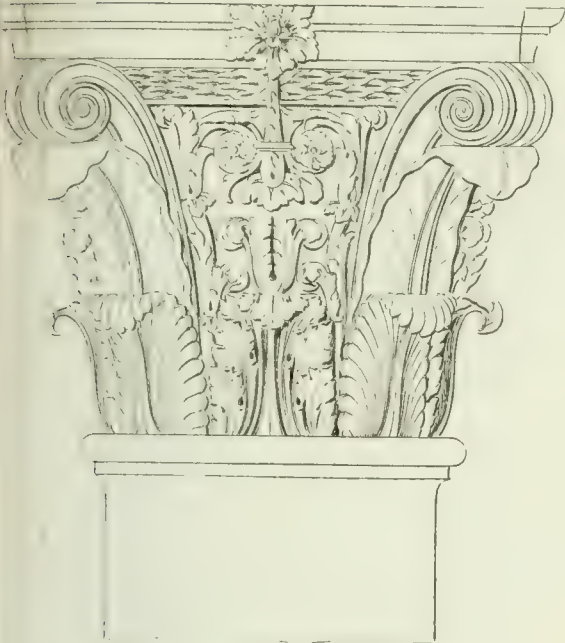


Fig. 2.

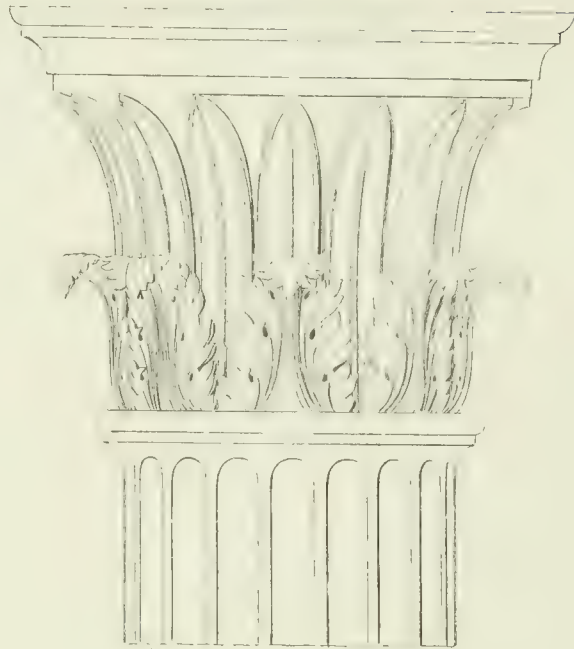
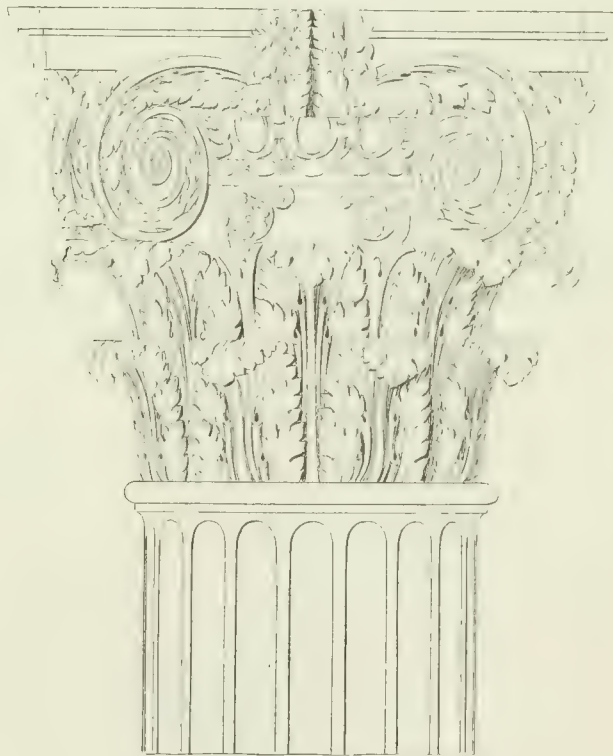
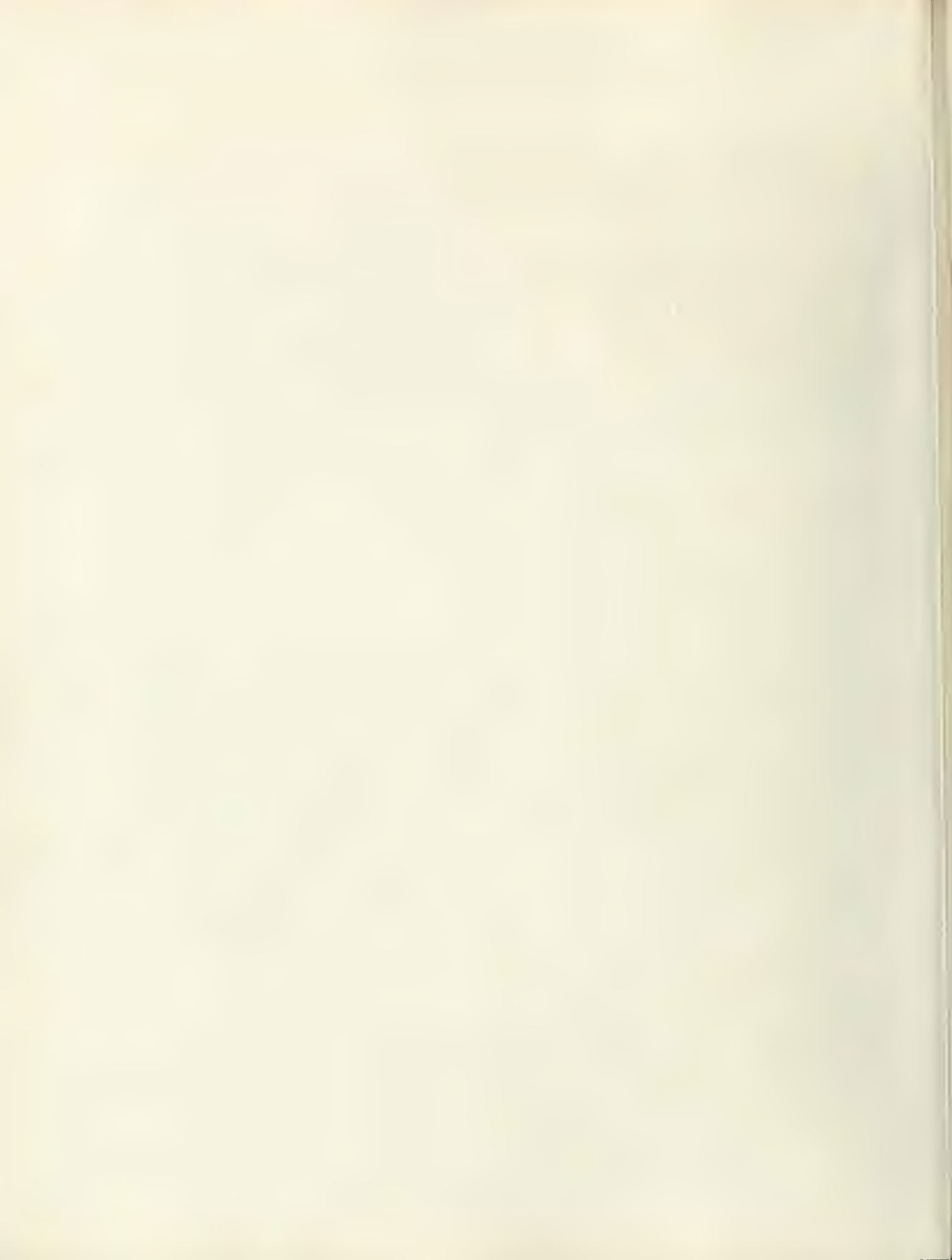


Fig. 3.



Fig. 4.

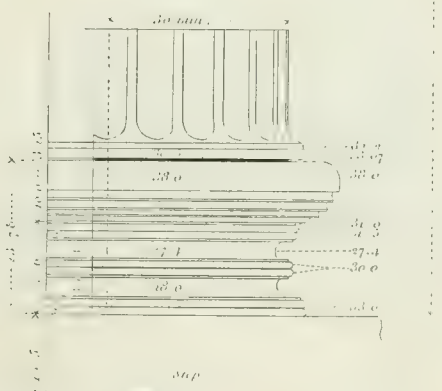
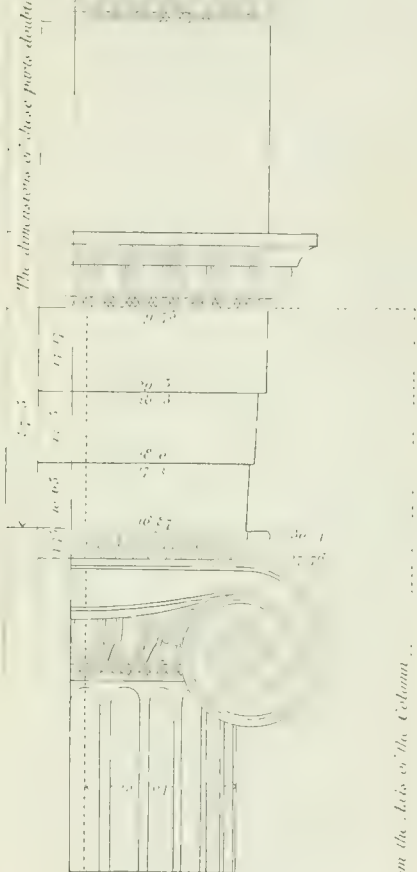
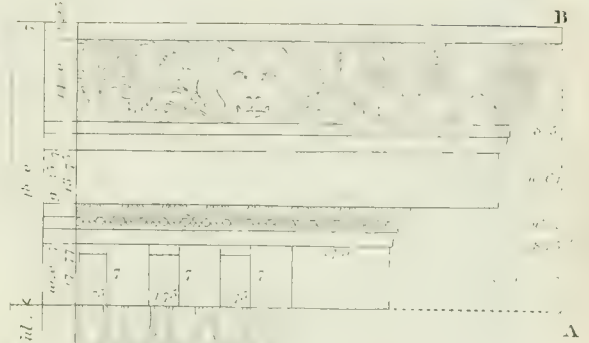
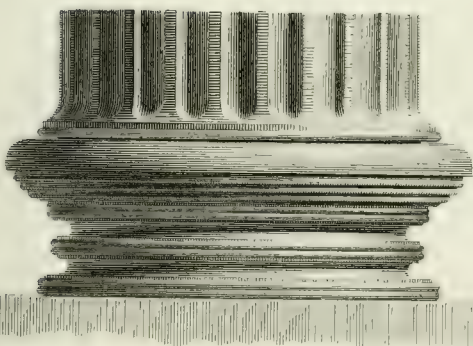
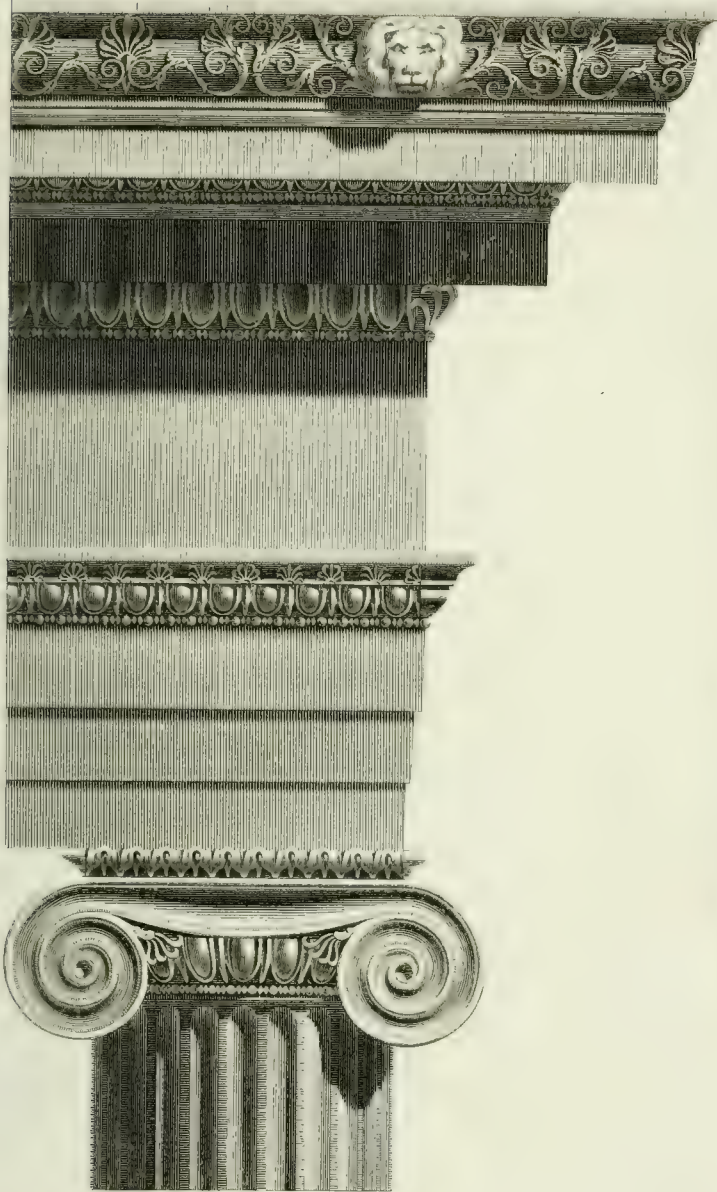






FROM THE TEMPLE OF MINERVA POLLAS, AT PRIENE.

IONIC ORDER.



These dimensions measured from the top A.B.

These from the Axis of the Column.

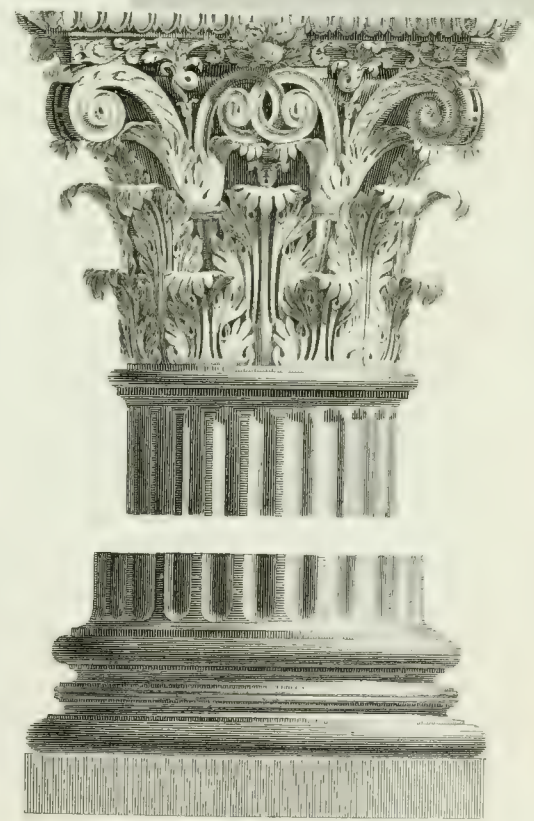
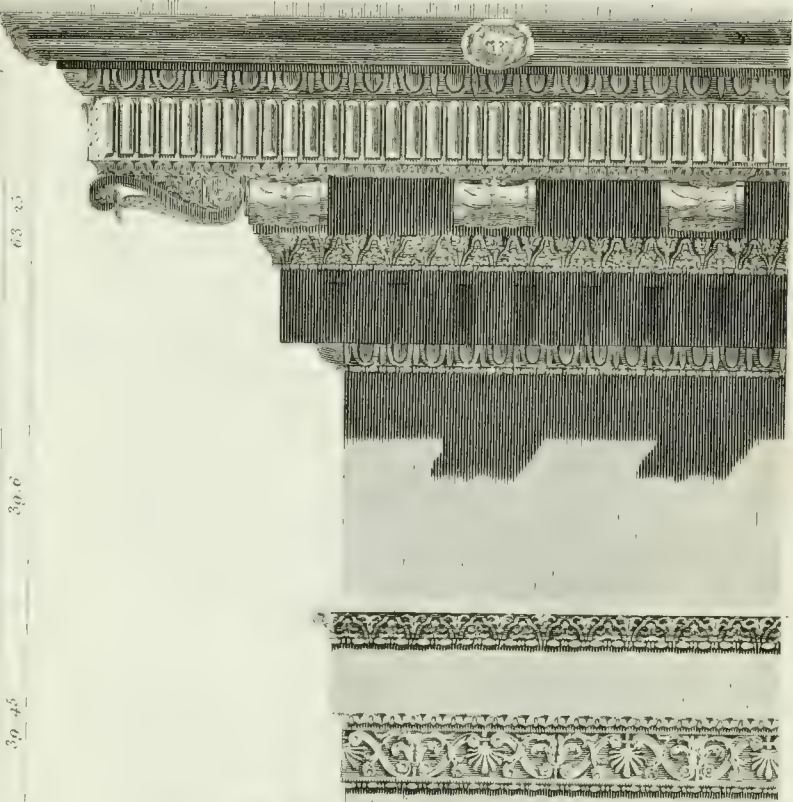
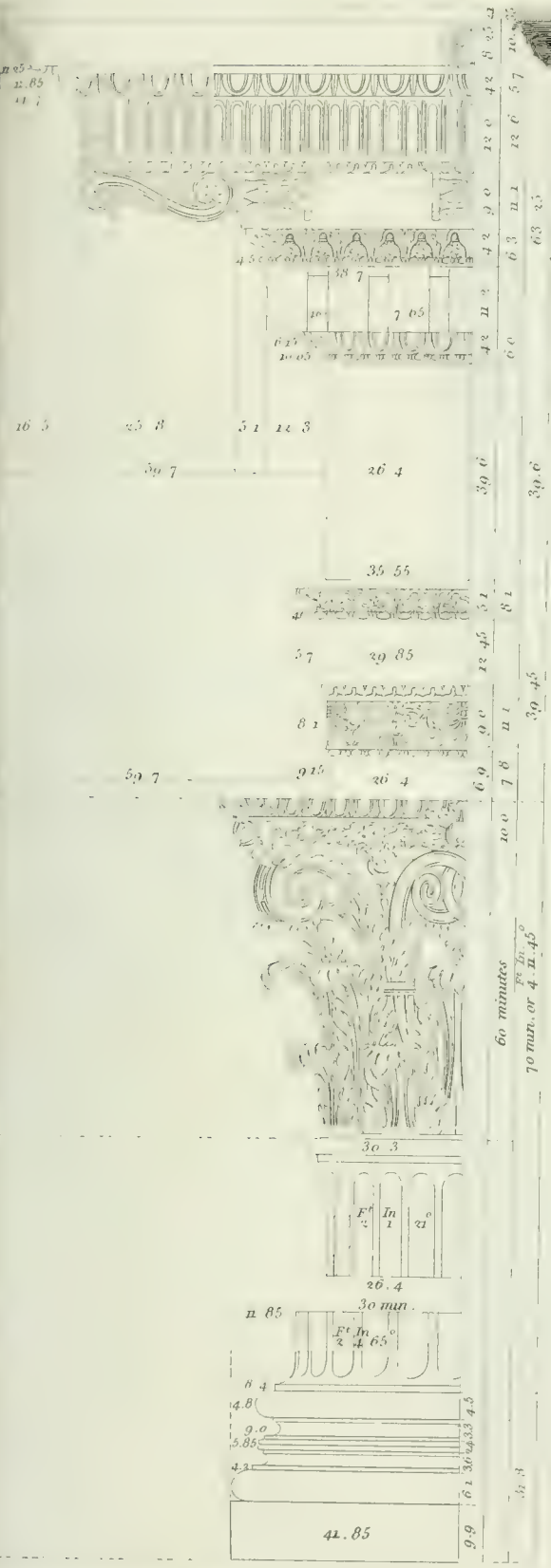


FROM THE TEMPLE OF JUPITER STATOR IN ROME.

THE CORINTHIAN ORDER.

n Feet 4 Inches English.

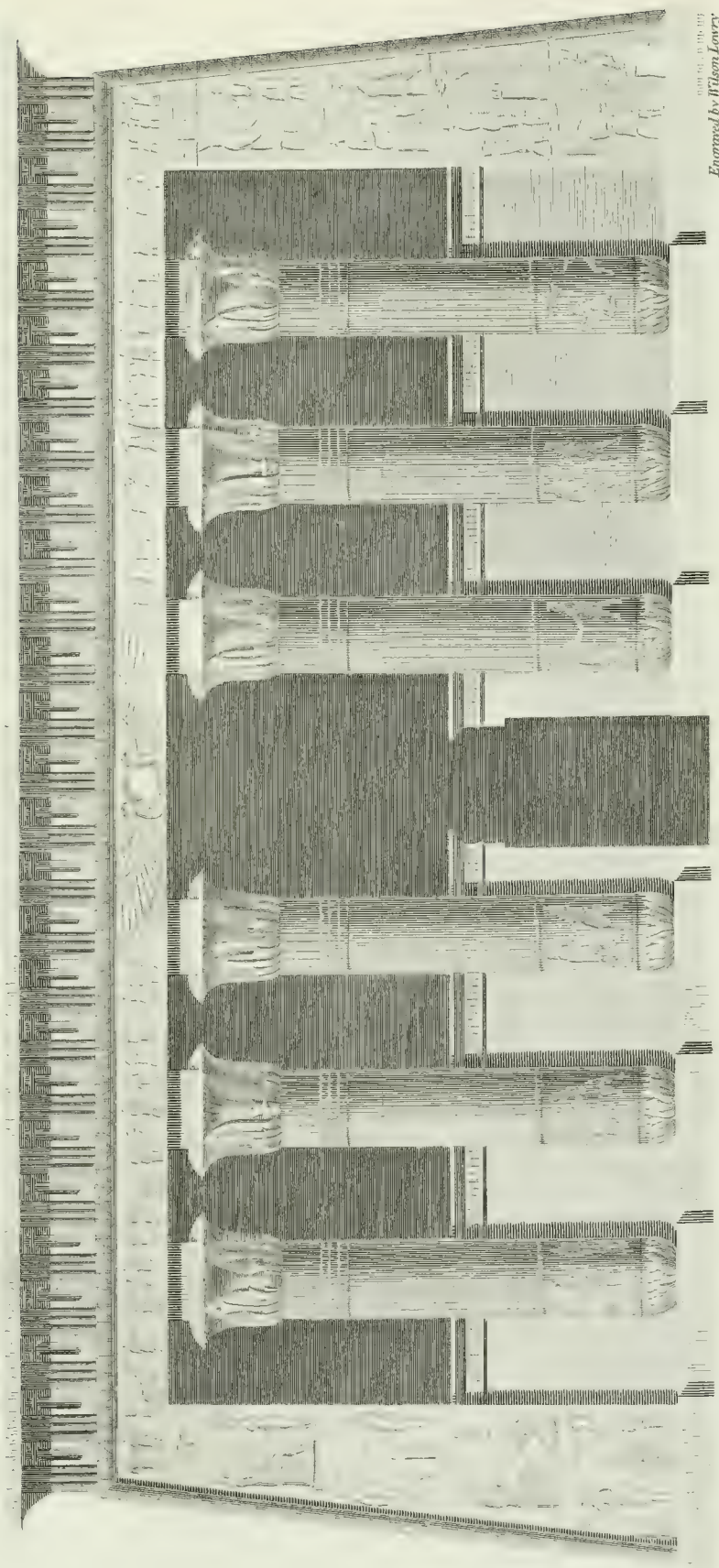
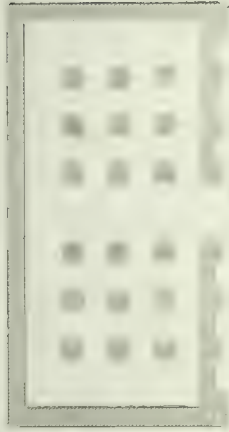
Whole height of the Column 45 <sup>7</sup>/<sub>16</sub> = 4.27 English.



The Entablature and Capital drawn by Wilson Lowry from a Cast in the Possession of John Soane Esq. R.A.  
The Dimensions reduced to Minutes and English feet from Palladio.



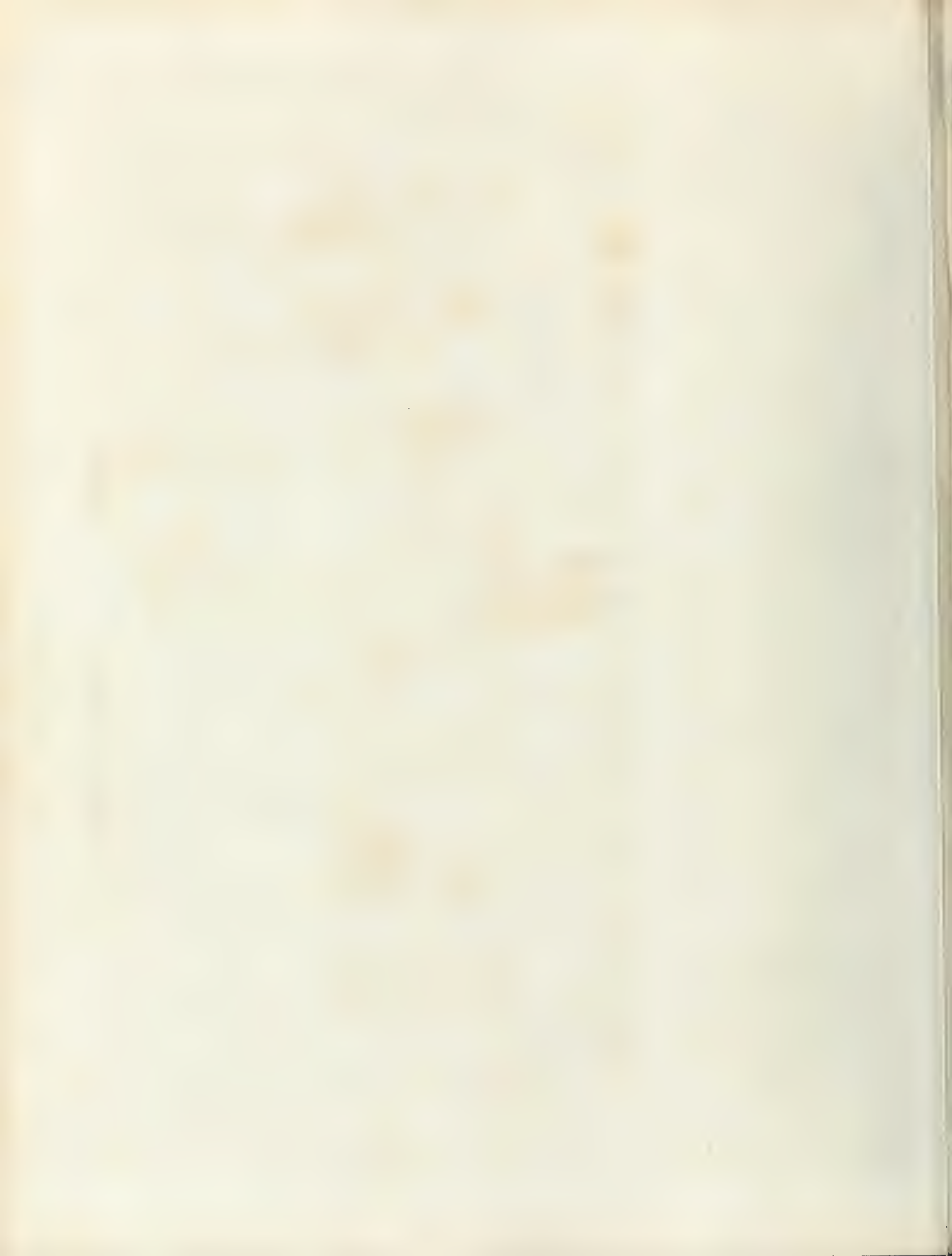




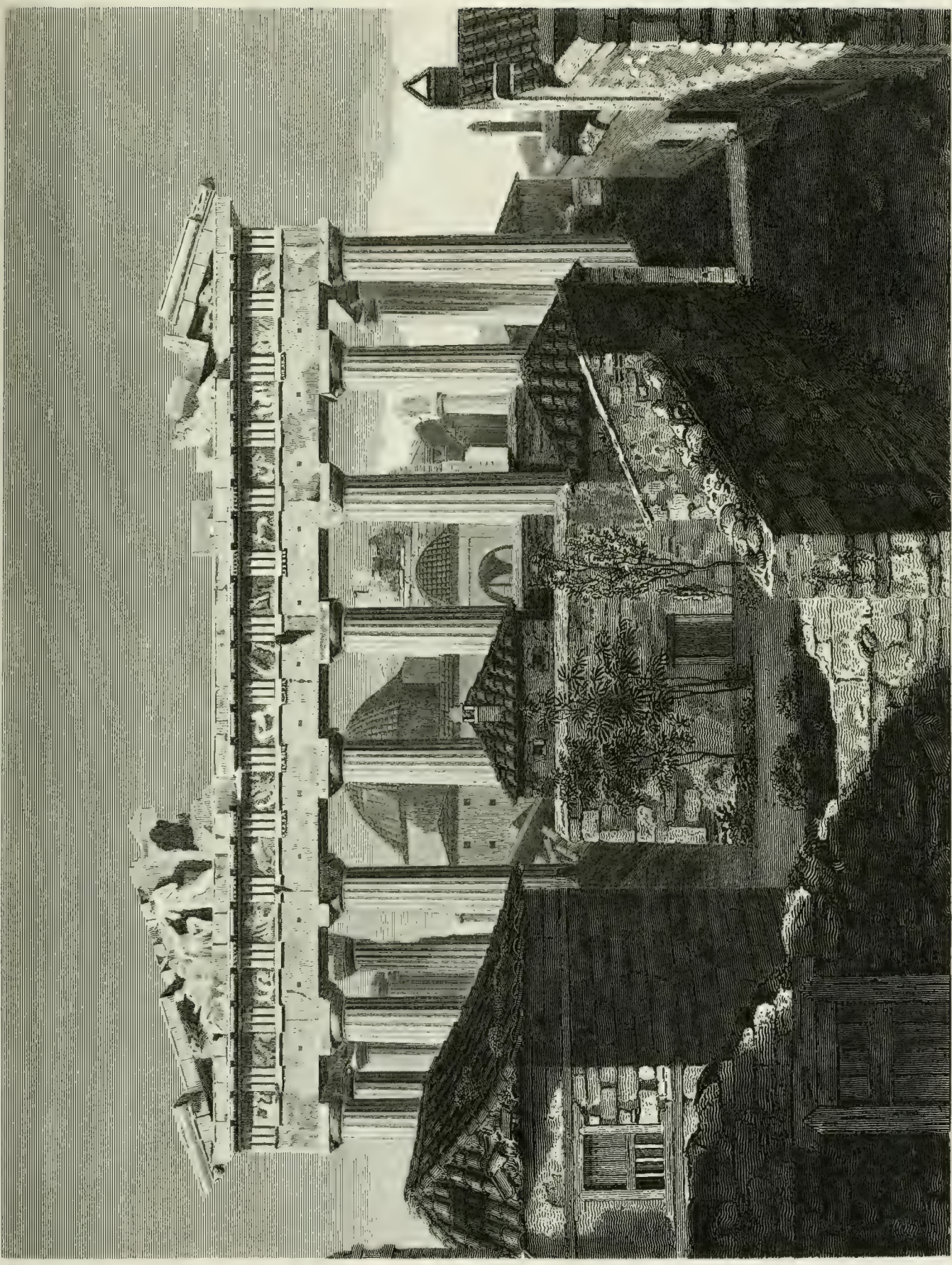
Engraved by Wilson Lowry

PLAN AND ELEVATION OF A PORTICO AT LATOPOLIS.

Published as the Architects, 1858, by Longman, Hurst, Rees & Orme, Paternoster Row.





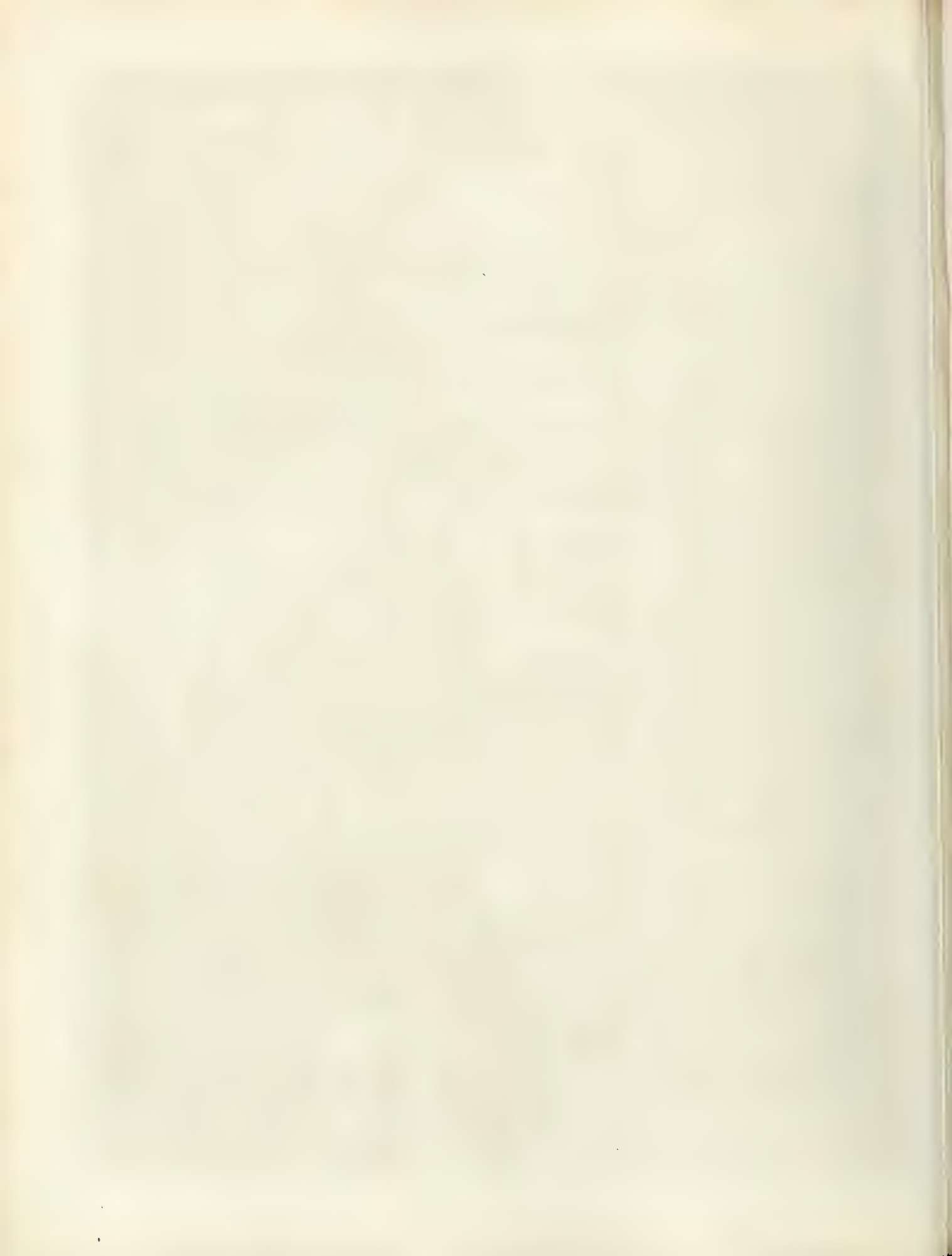


Engraved by Wilson Lowry.

EASTERN PORTICO OF THE PARTHENON ON THE ACROPOLIS OF ATHENS.

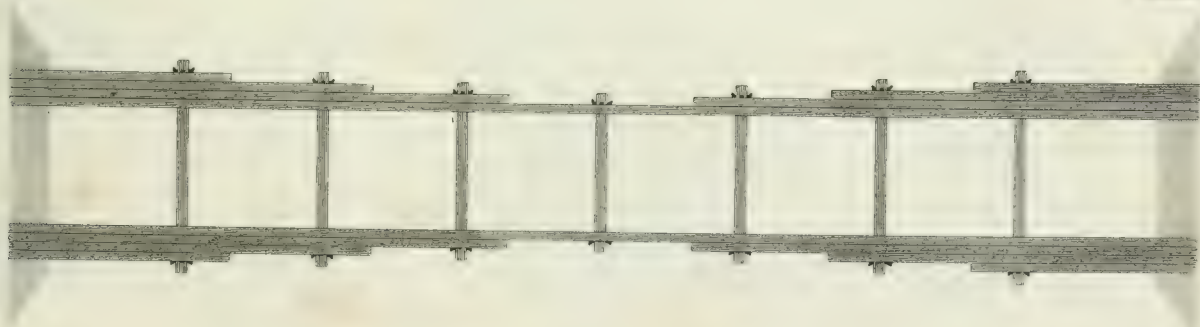
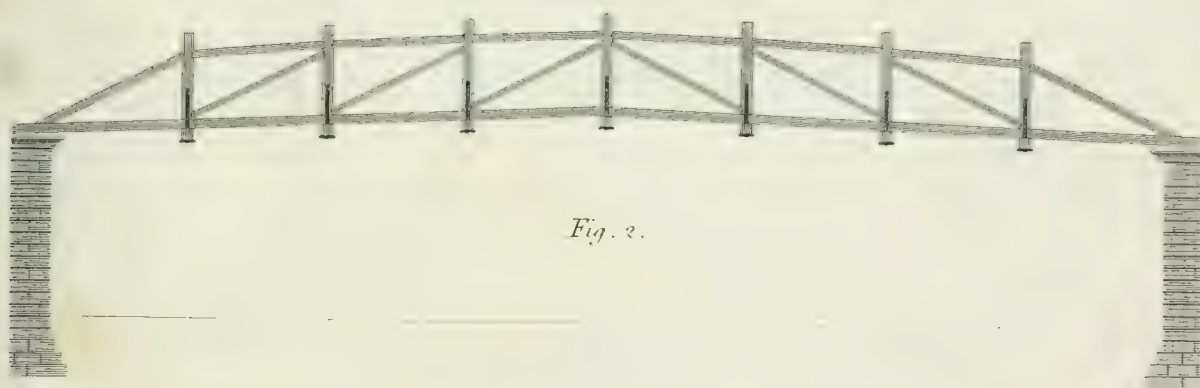
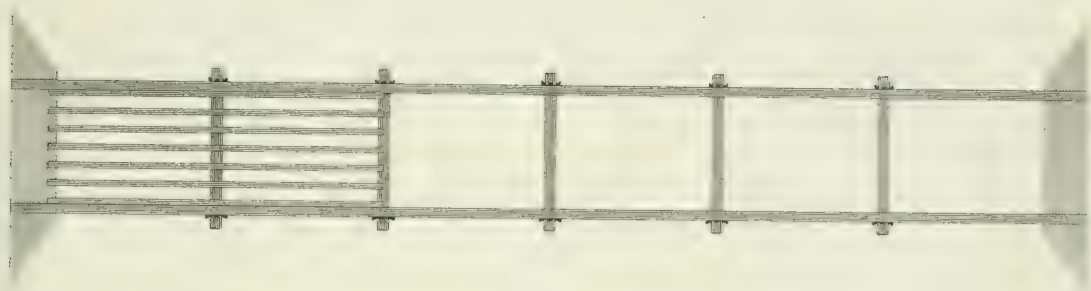
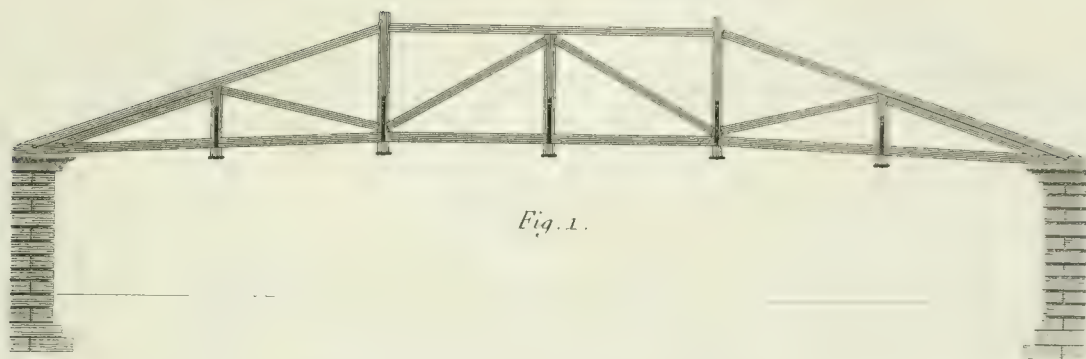
From Stewart

Published as the Act directs, Aug. 1, 1853, by Longman & Coes, Paternoster Row.





BRIDGES.





BRIDGES.

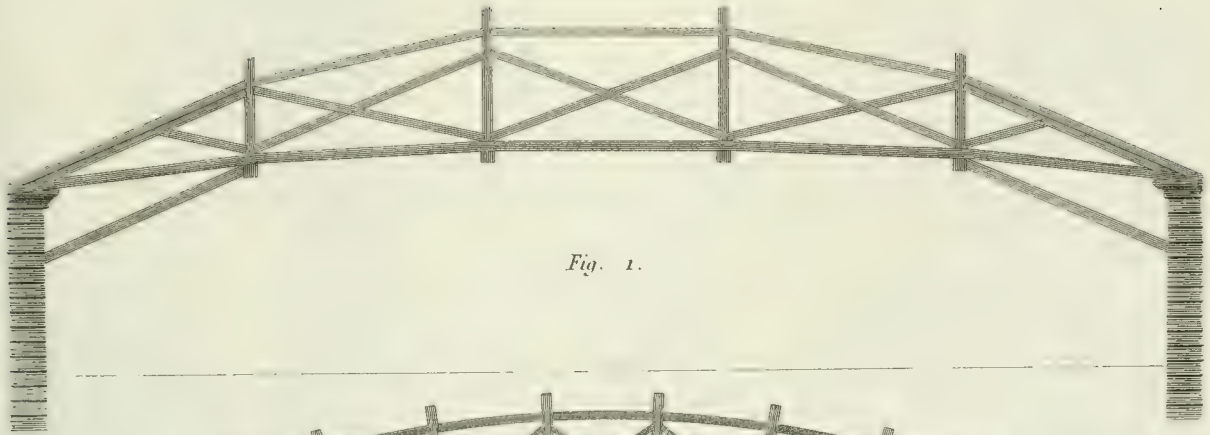


Fig. 1.

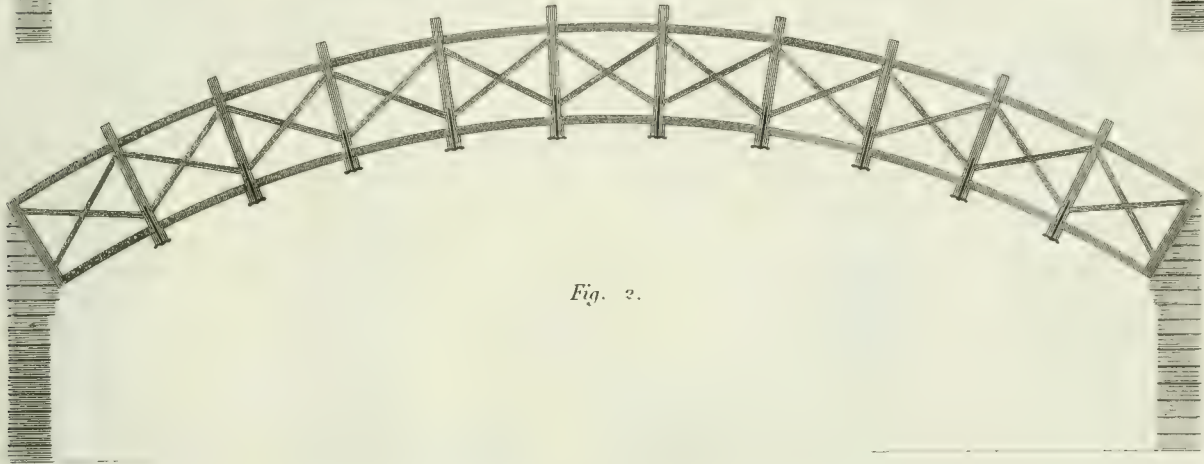


Fig. 2.

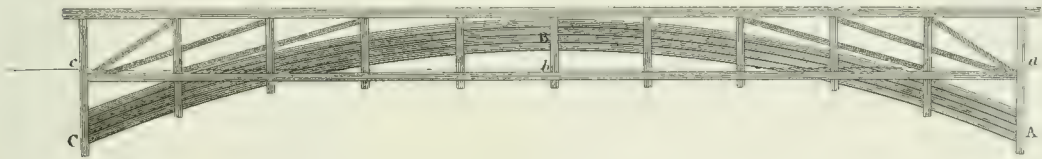


Fig. 3.

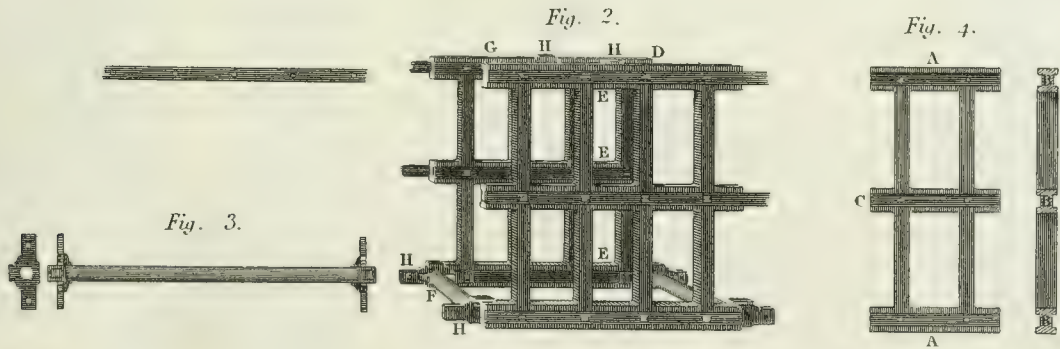


Fig. 2.

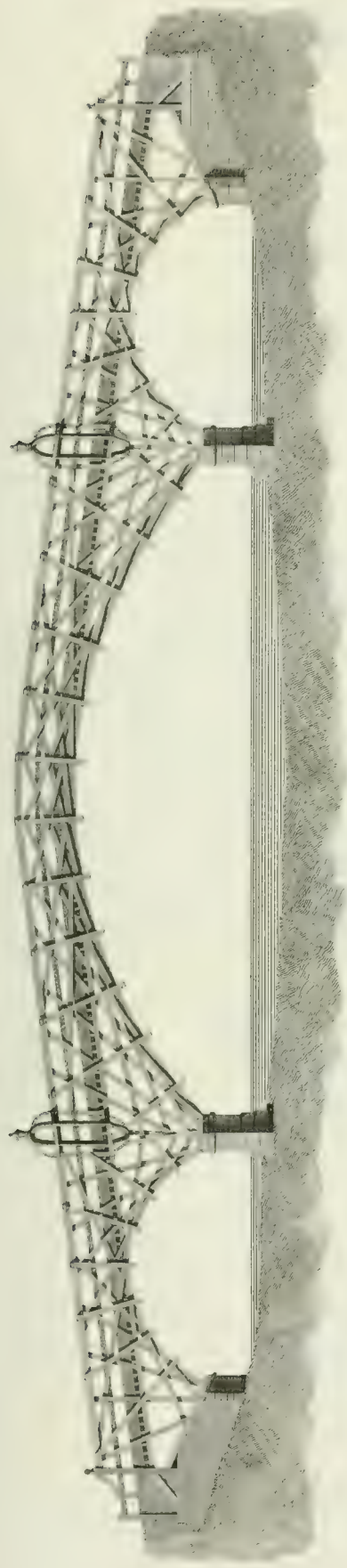
Fig. 4.

Fig. 3.

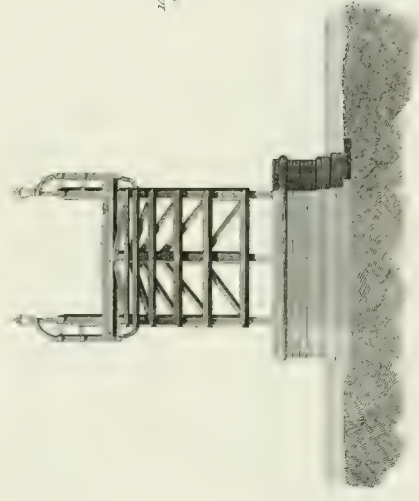




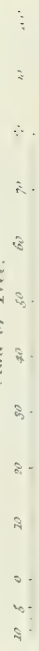
*Elevation.*



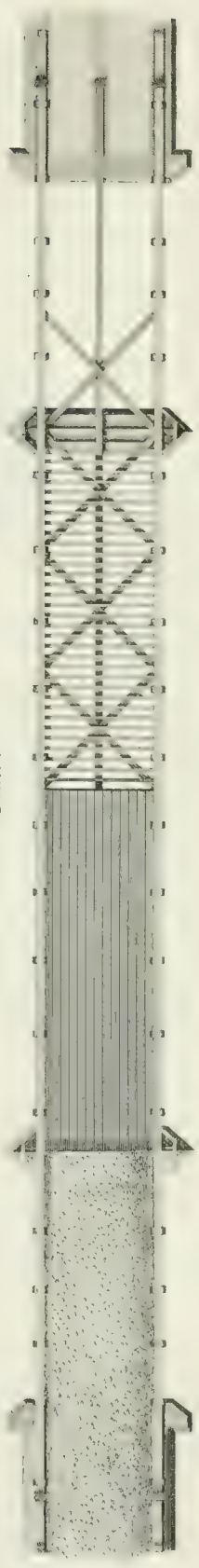
*Cross Section*



*Scale of Feet.*



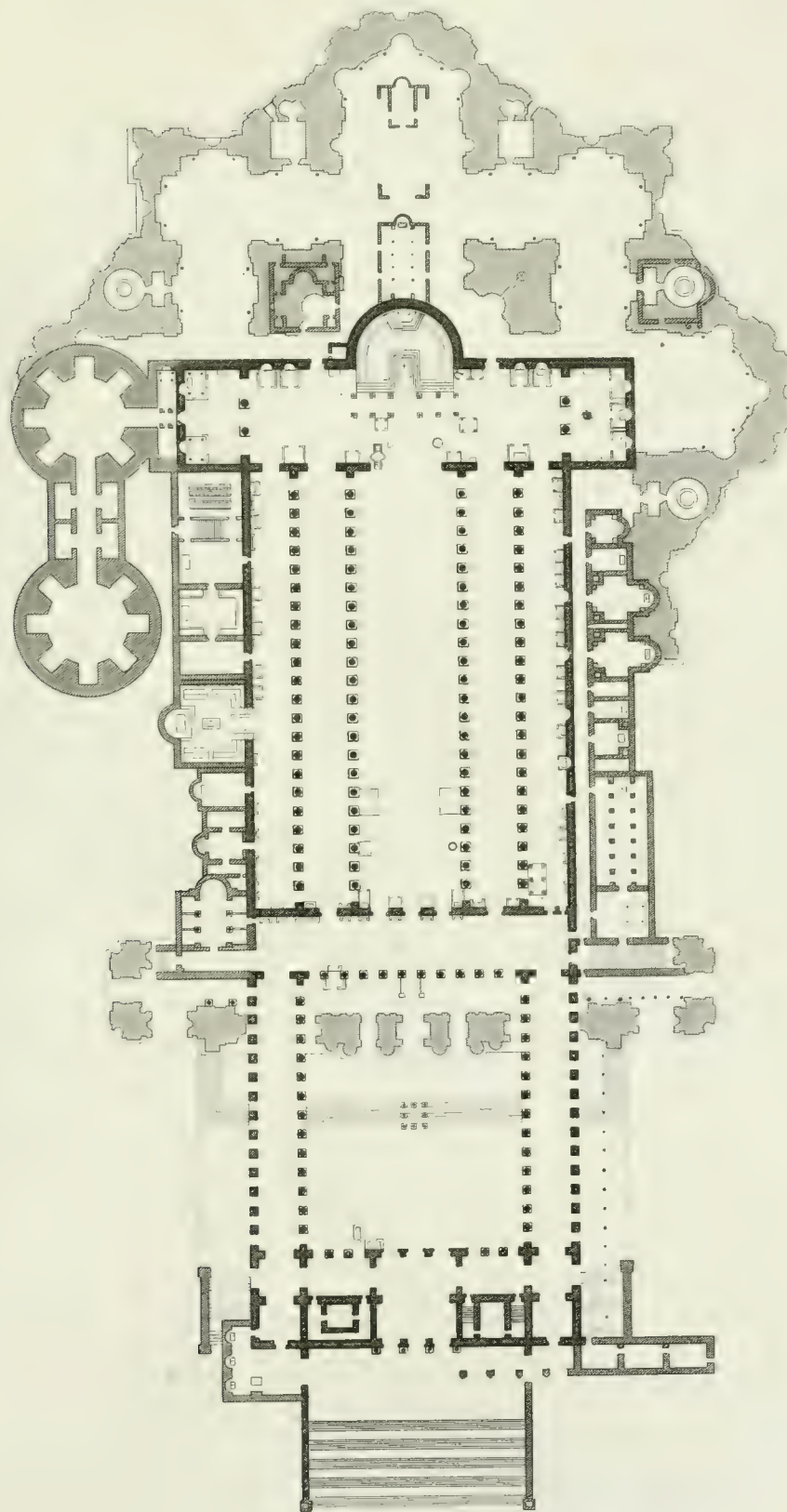
*Plan.*

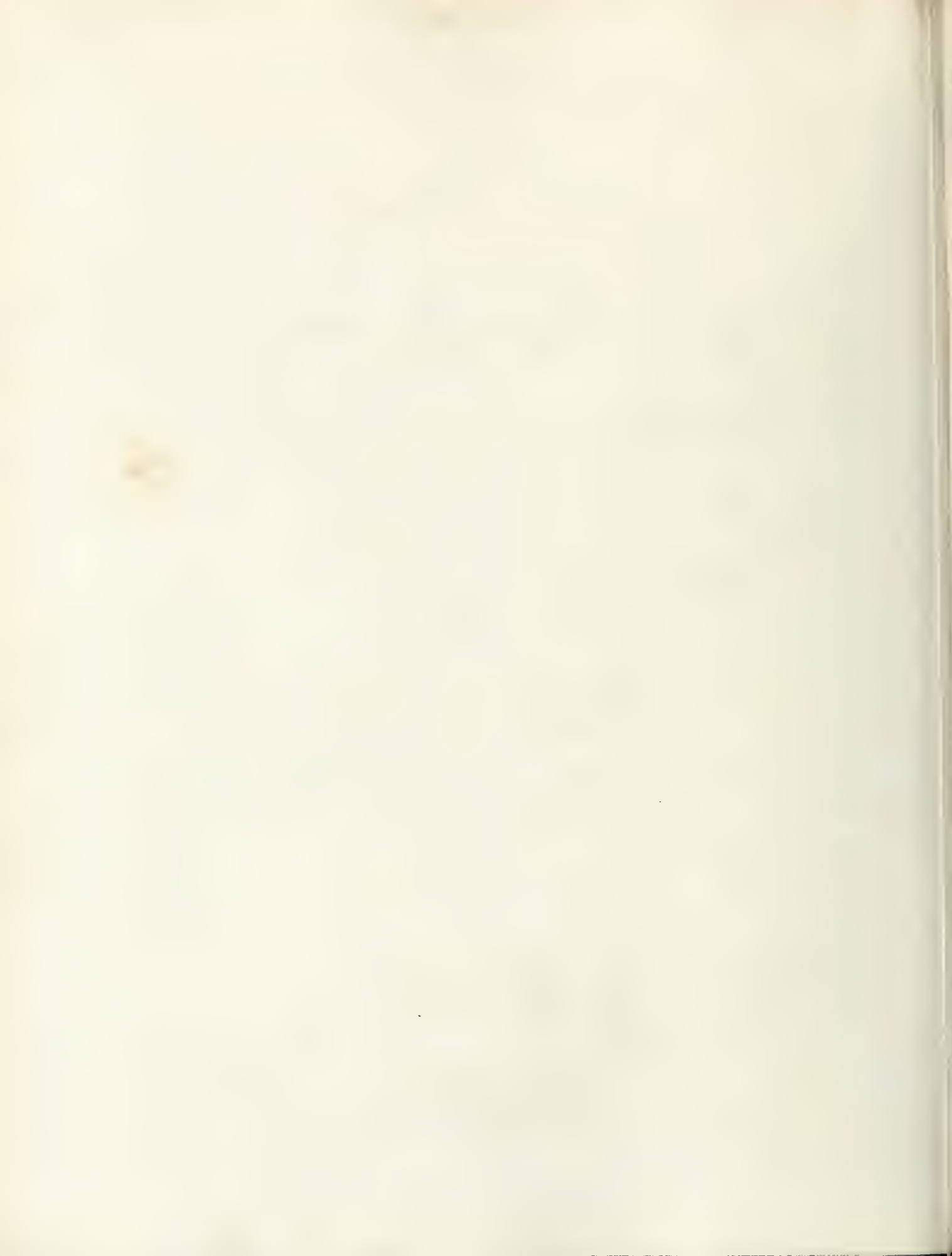




BASILICA.

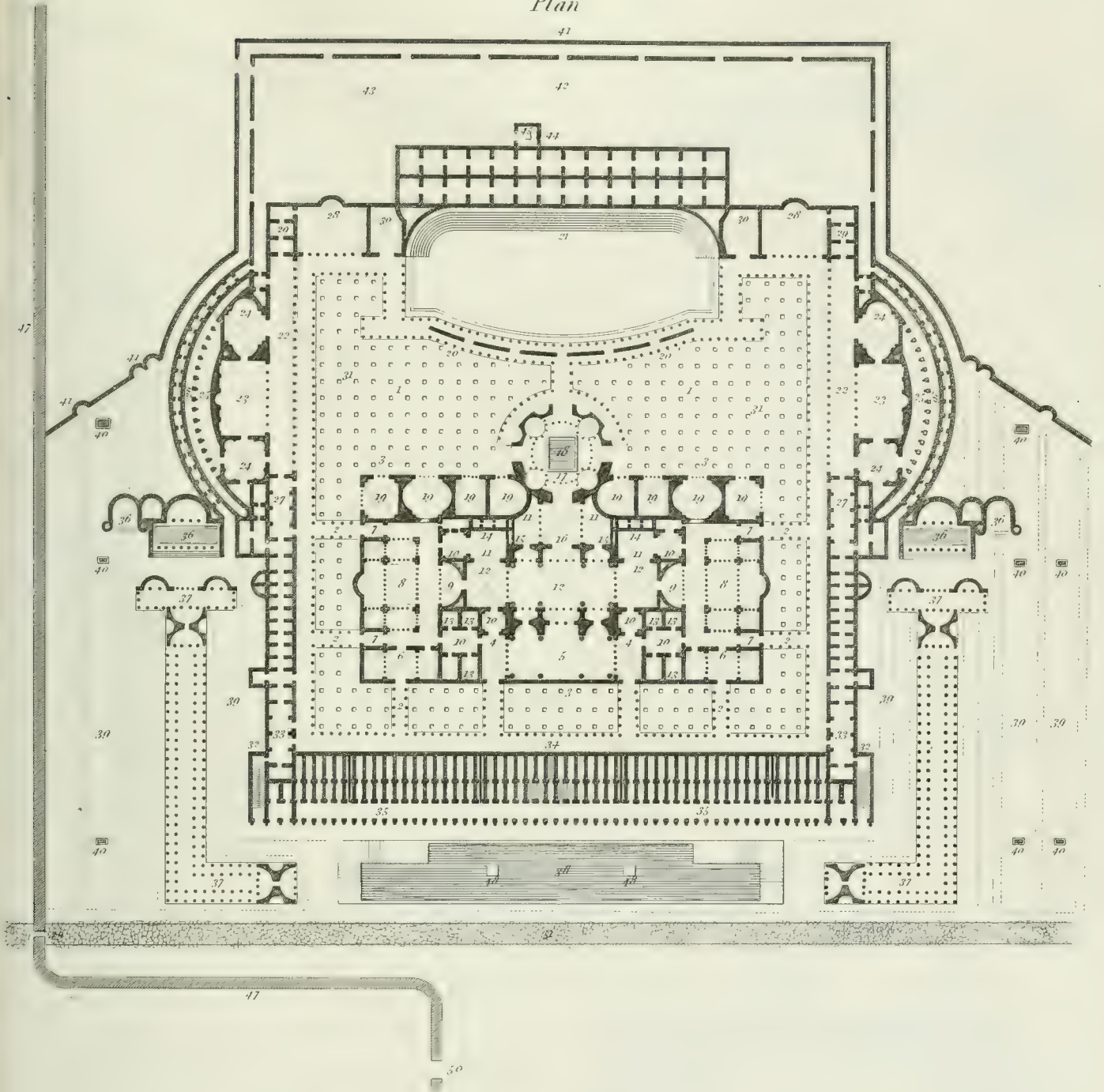
*Incorporated Plans of the old Basilica of S.<sup>t</sup> Peter's  
and of the modern S.<sup>t</sup> Peter's of the Vatican, from Costantini.*





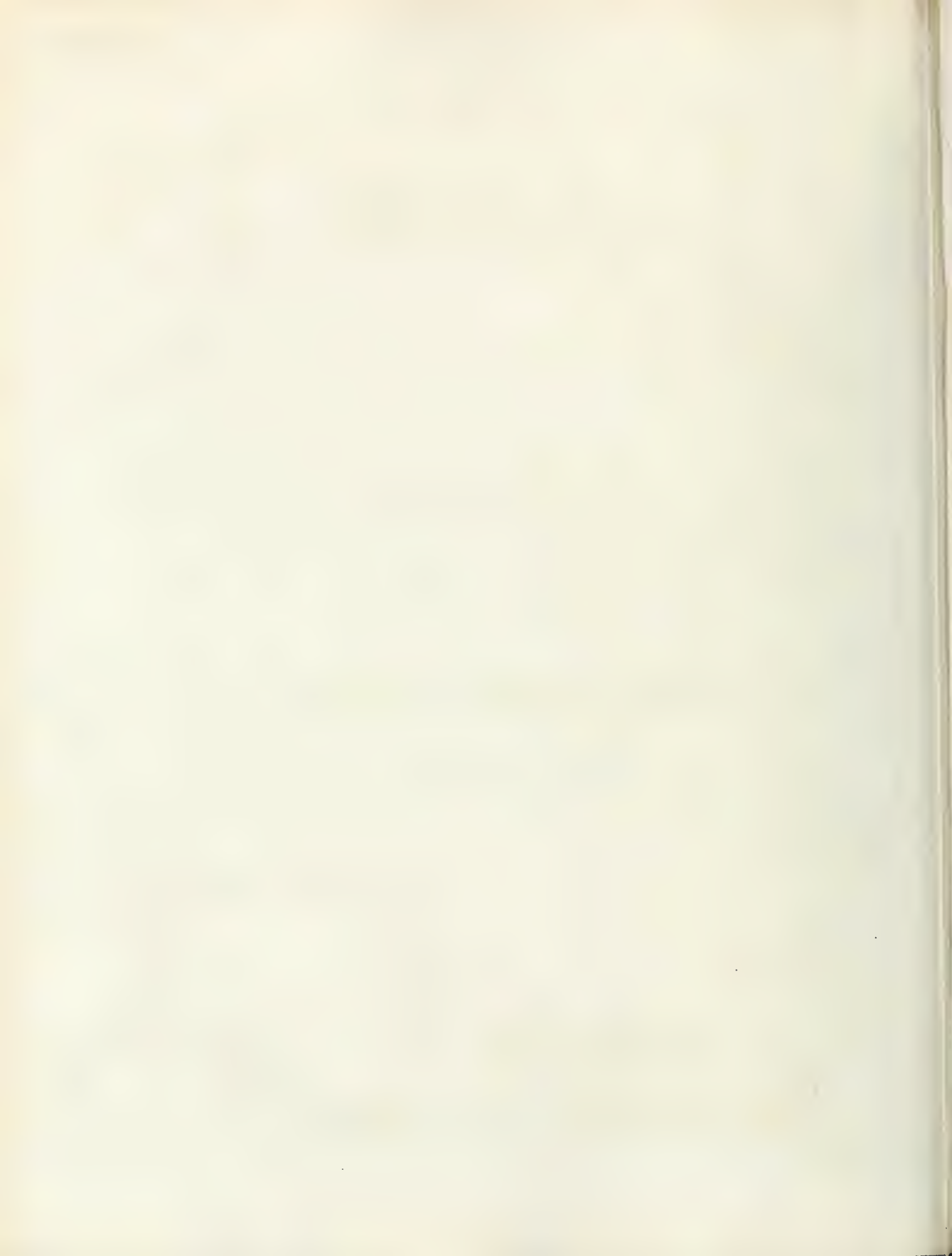


Plan

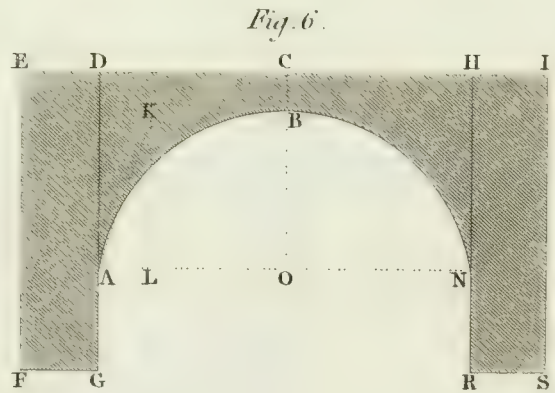
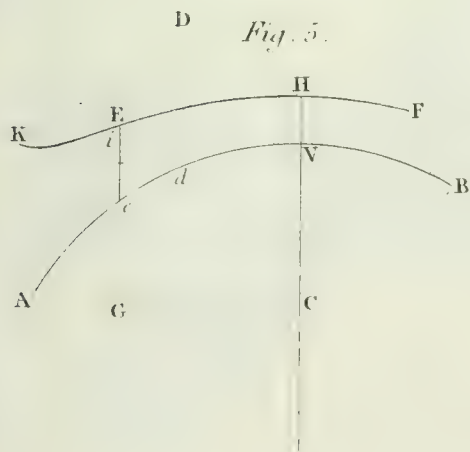
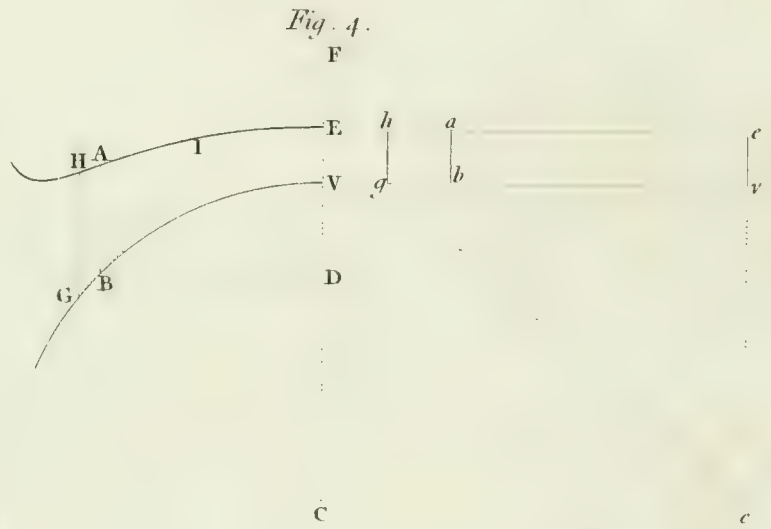
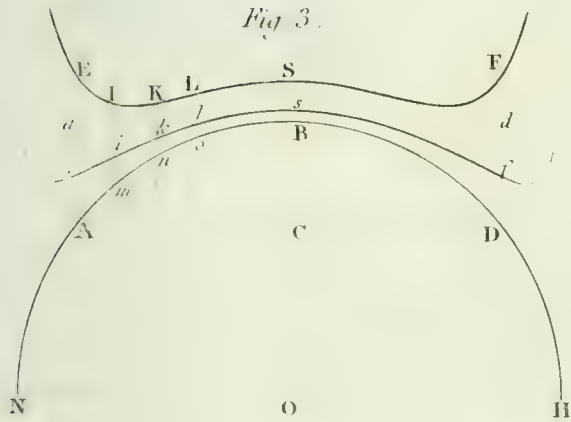
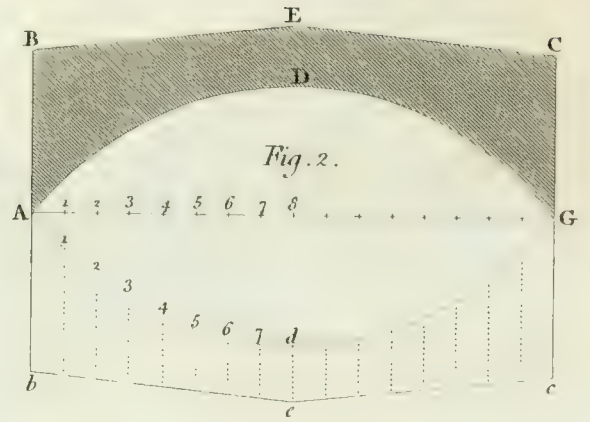
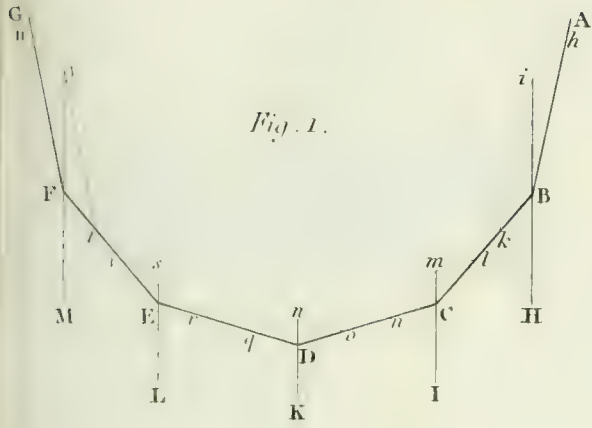


Section





BRIDGE.







OBLIQUE ARCH.

Fig. 1.

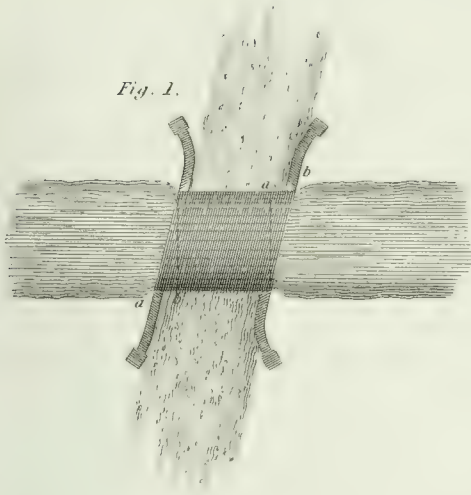


Fig. 2.

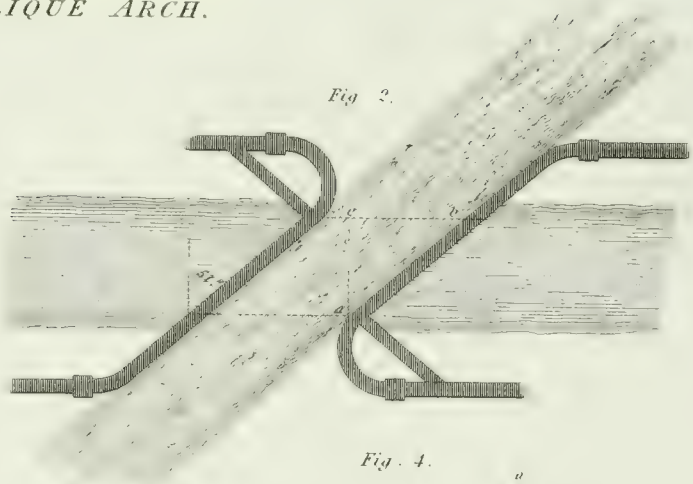


Fig. 3.

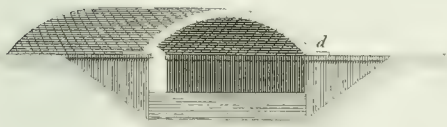


Fig. 5.



Fig. 4.

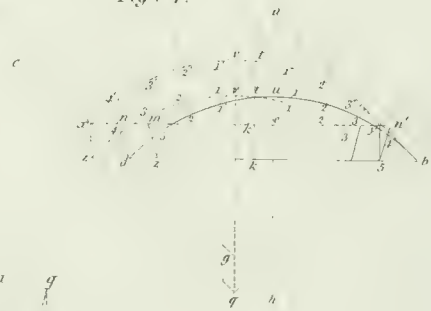


Fig. 8.

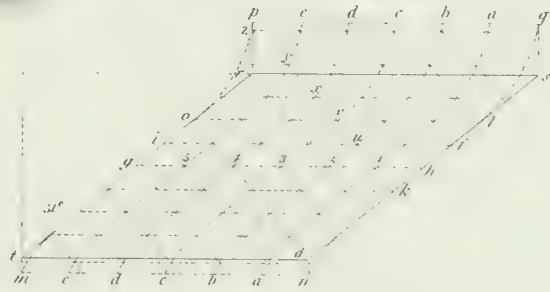


Fig. 7.



Fig. 6.



Fig. 9.

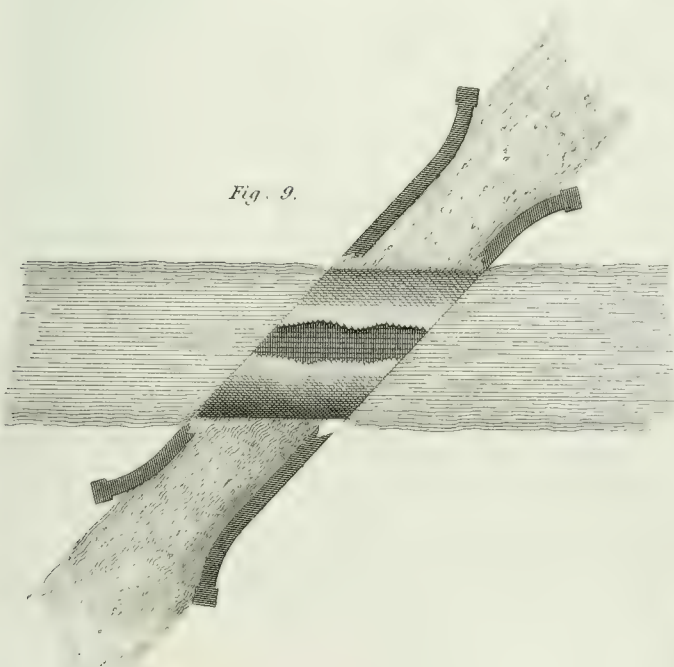
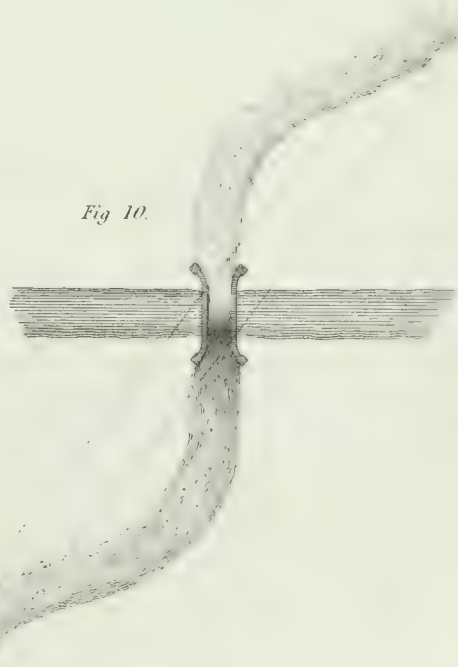
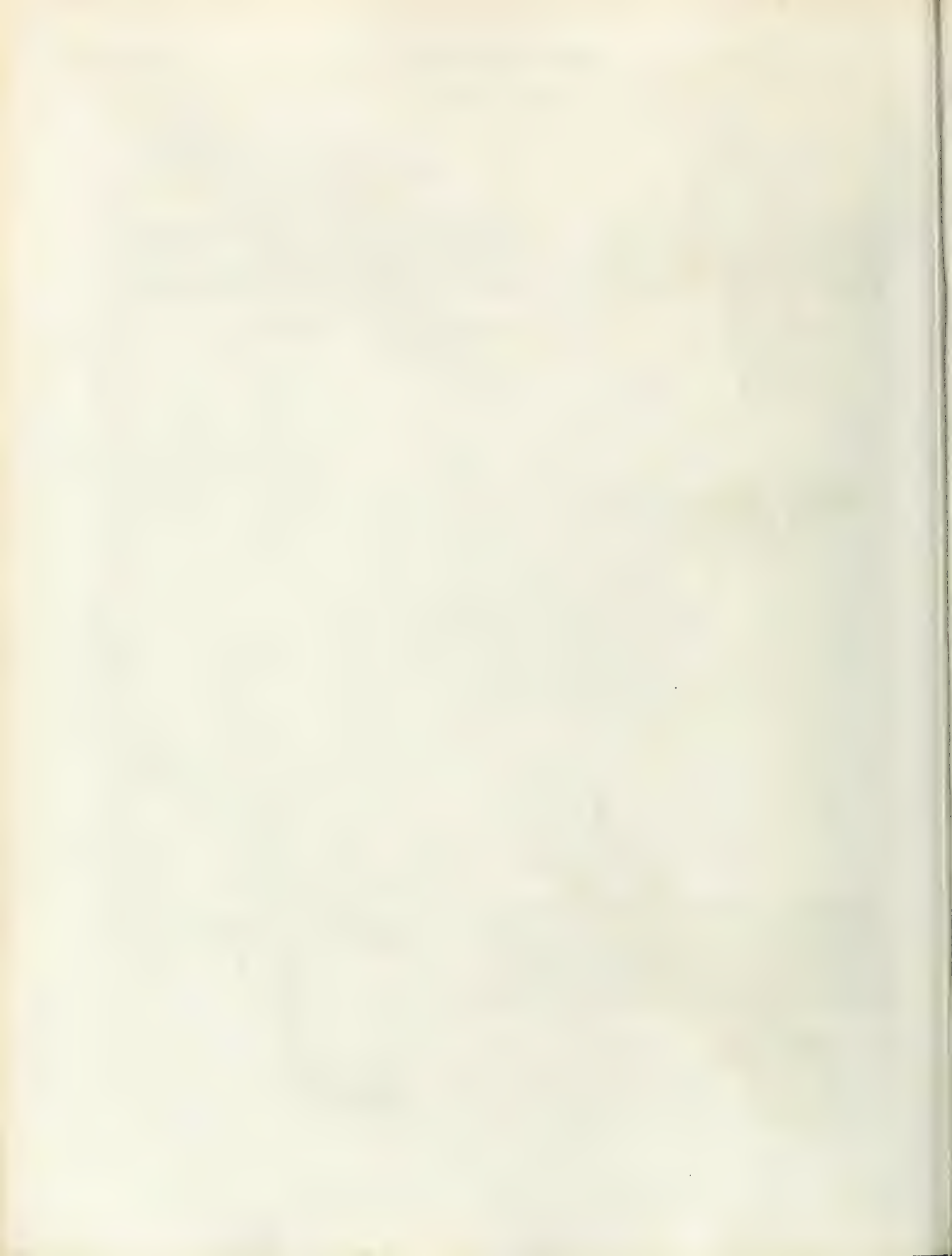
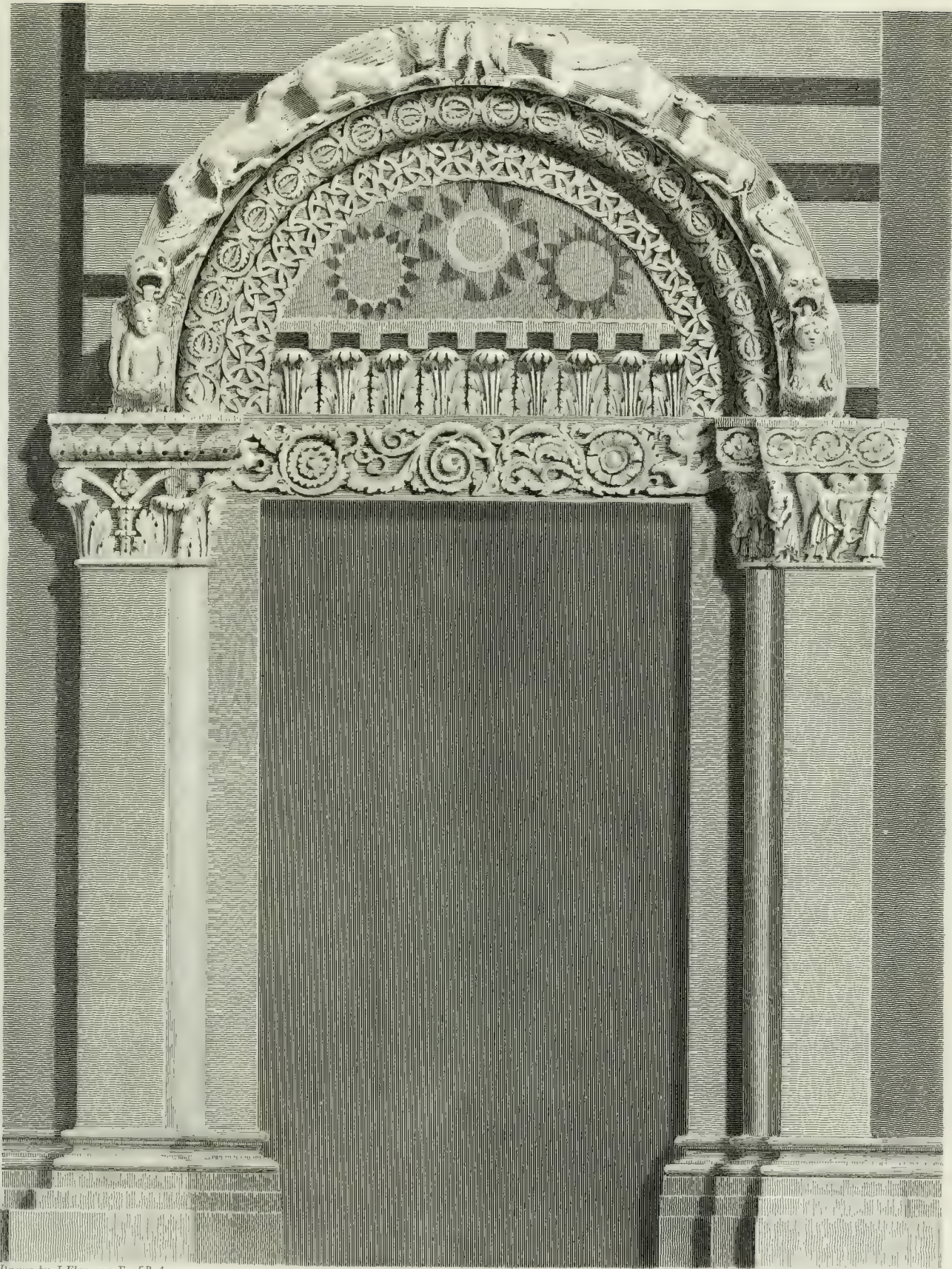


Fig. 10.









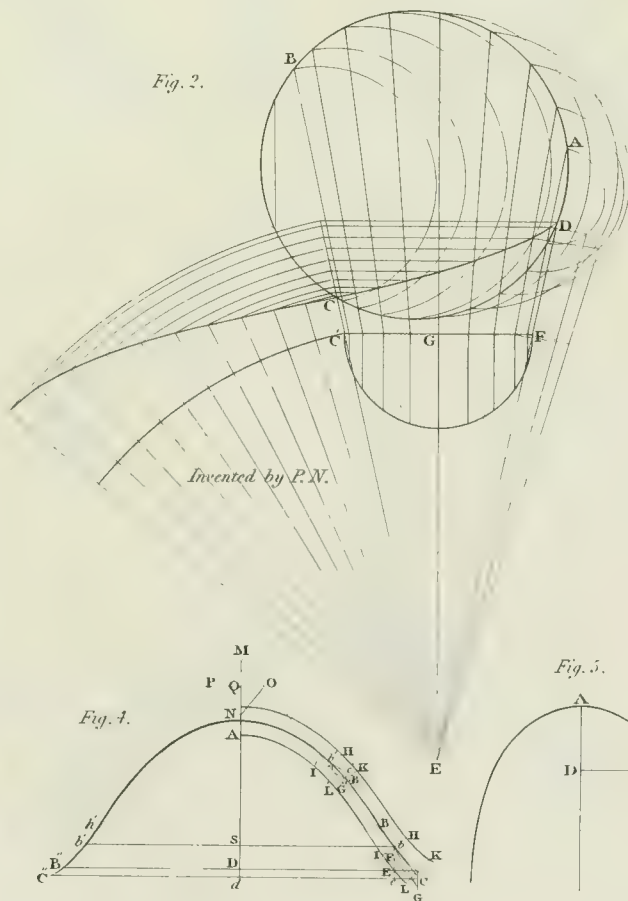
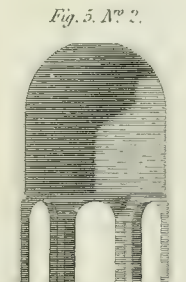
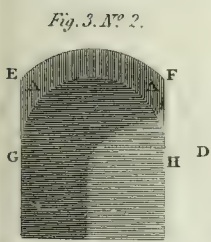
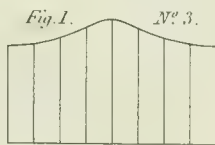
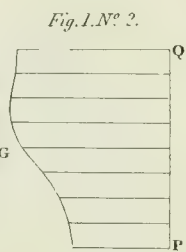
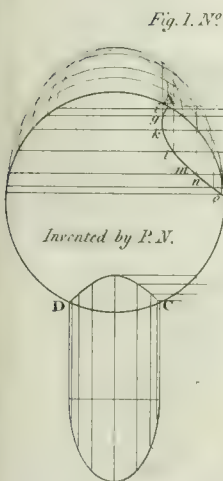
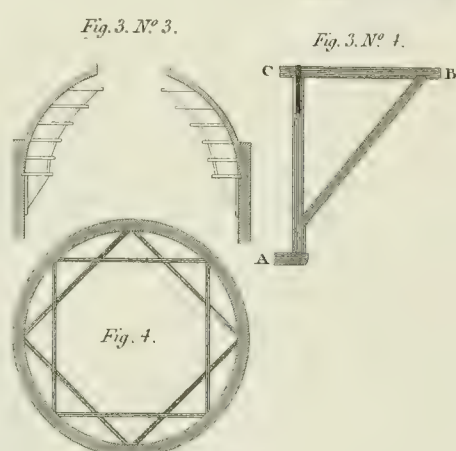
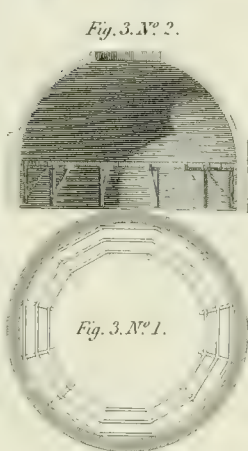
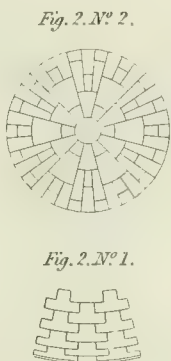
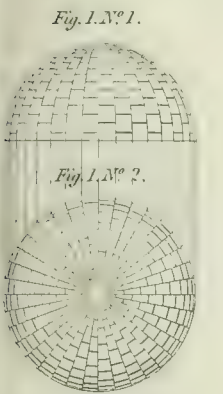
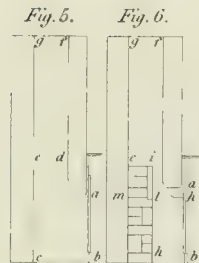
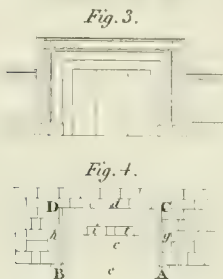
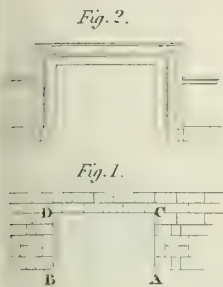
*Drawn by J. Flaxman Esq. R.A.*

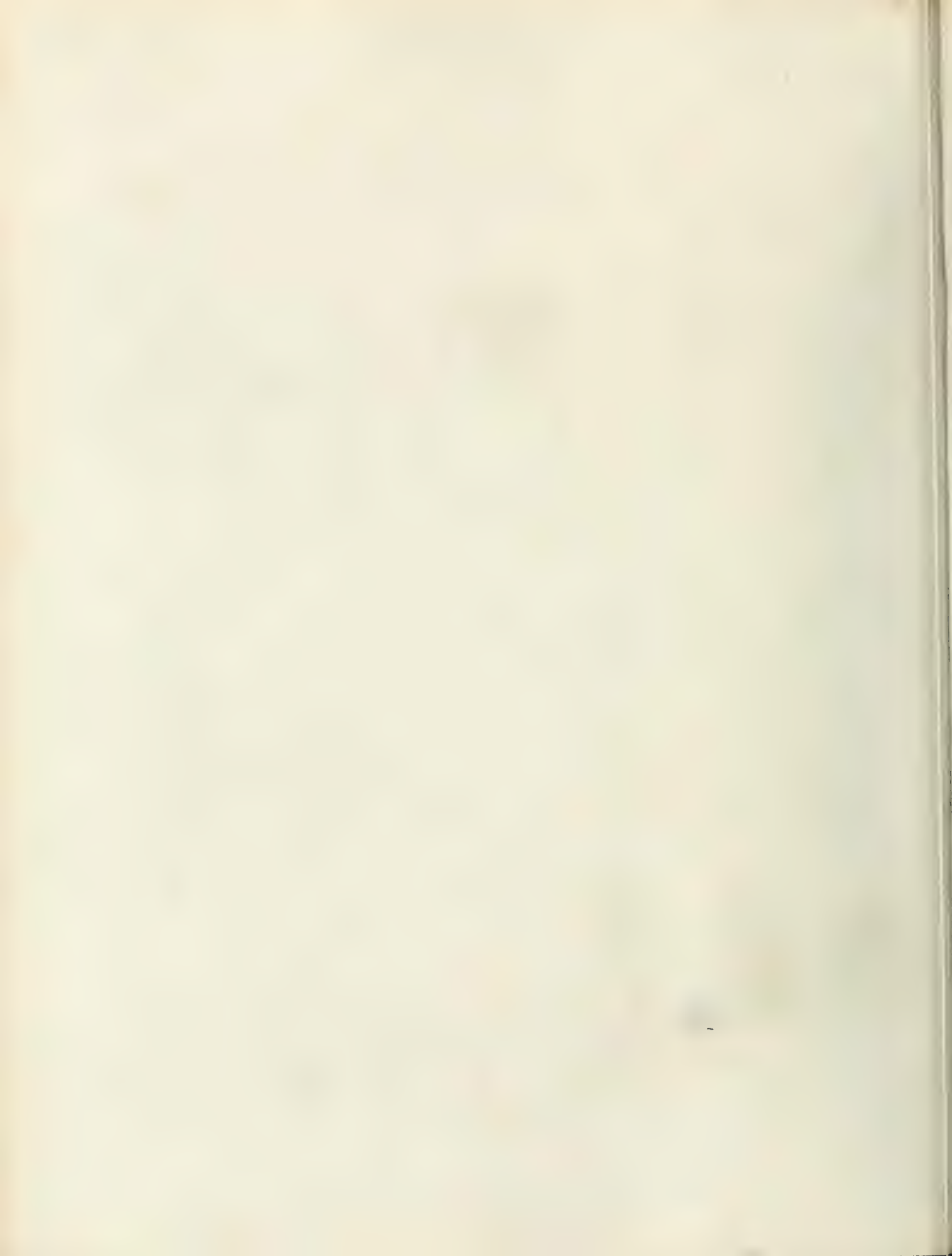
**WEST DOOR OF THE CATHEDRAL OF CARRARA.**

*Late in the Duchy of Massa Carrara in Italy, built about the year 1161 or soon after according to the Church Mss.*

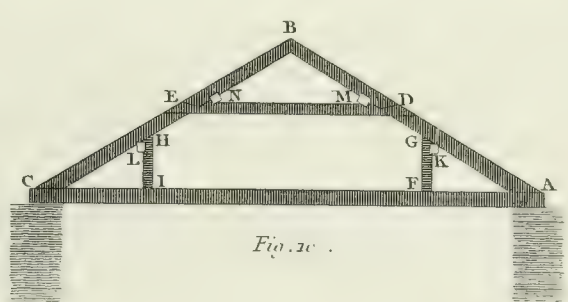
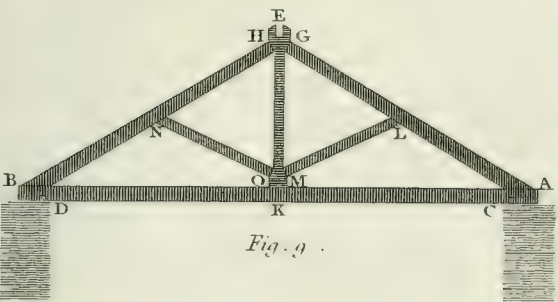
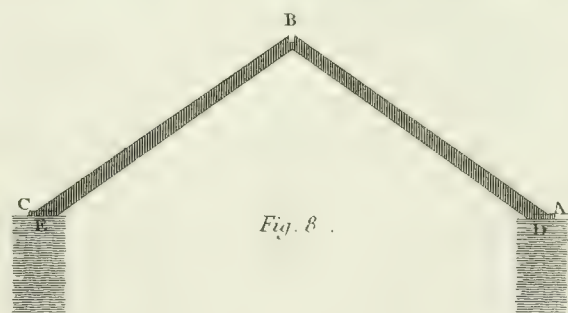
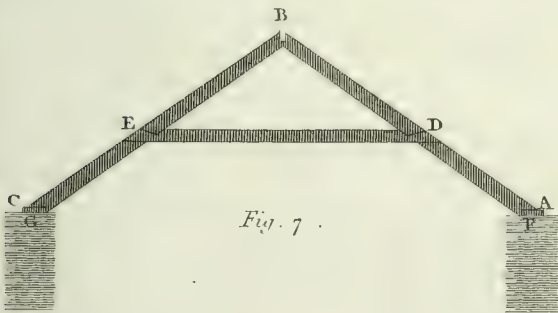
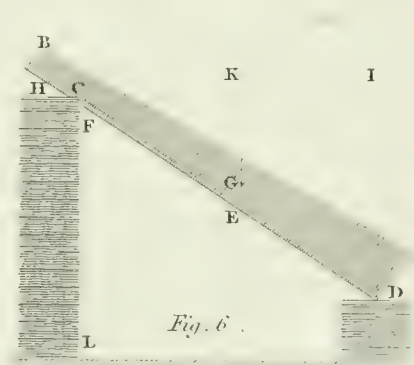
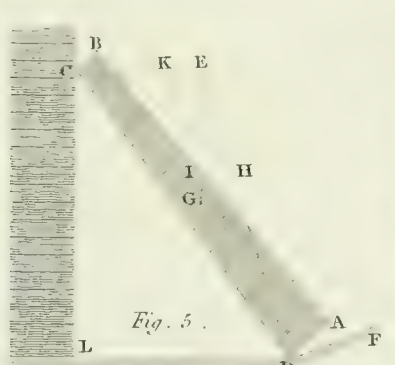
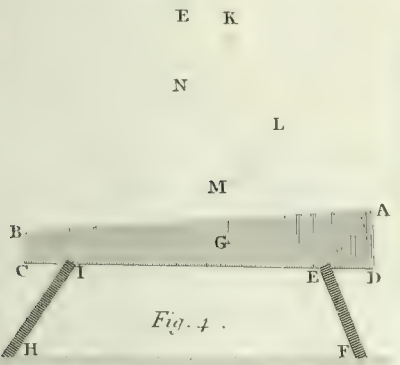
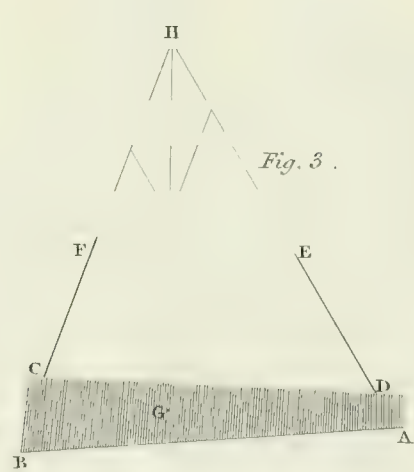
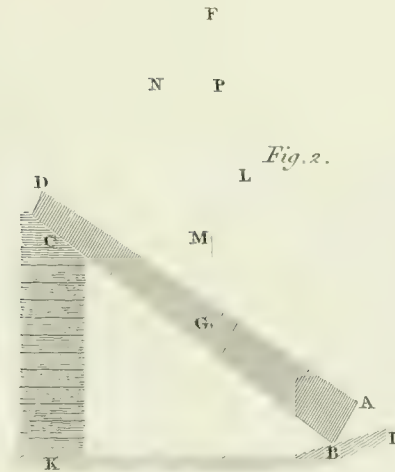
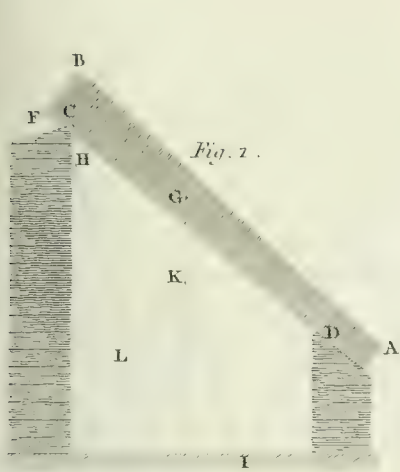


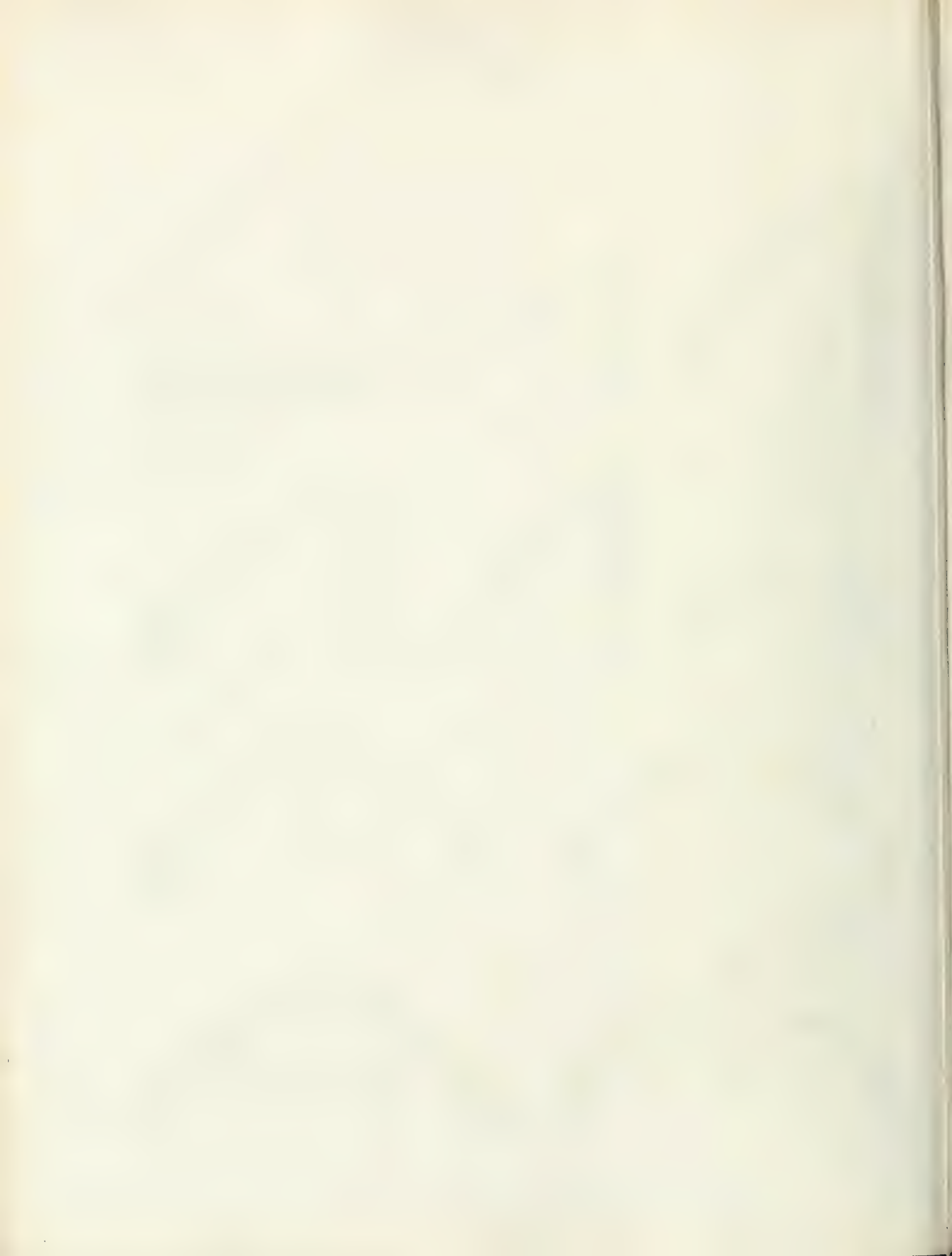






CARPENTRY.

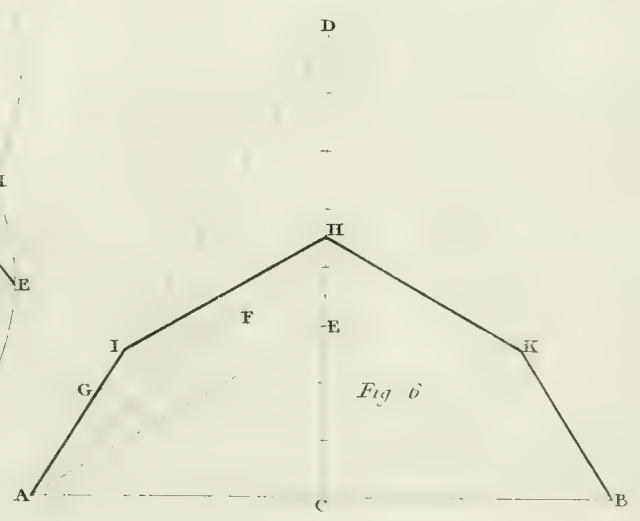
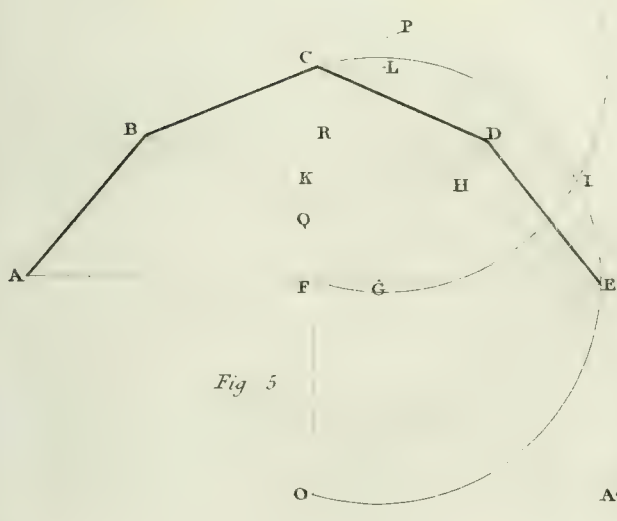
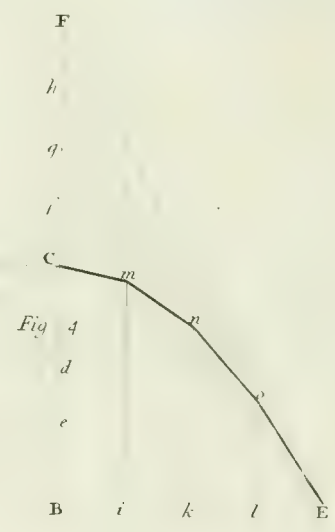
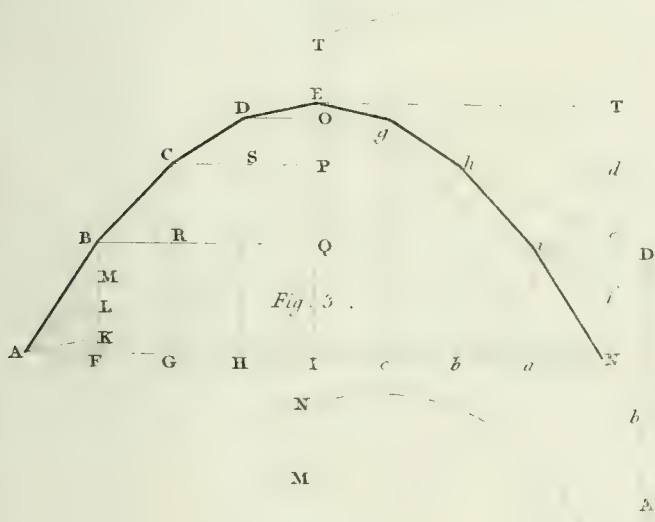
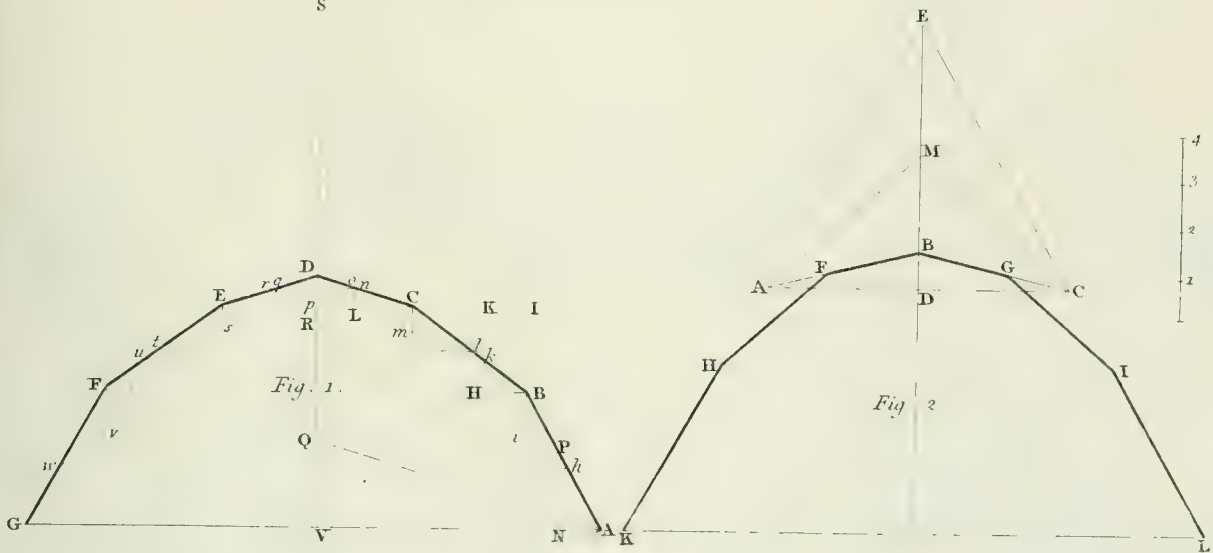






CARPENTRY.

S





ROOFS.

Fig. 2.

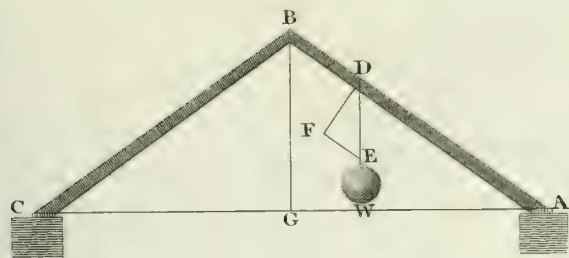


Fig. 1.

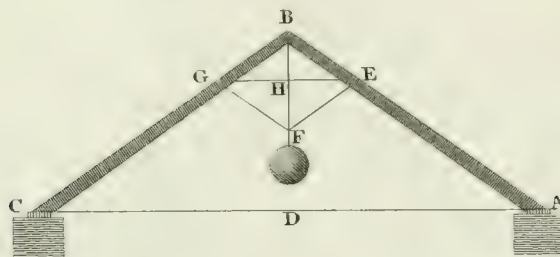


Fig. 4.

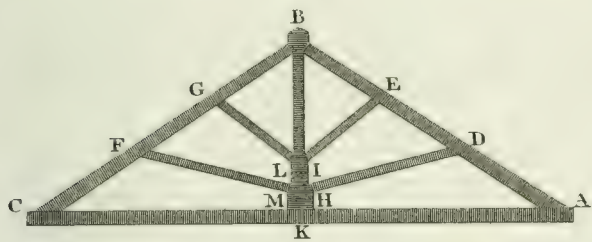


Fig. 3.

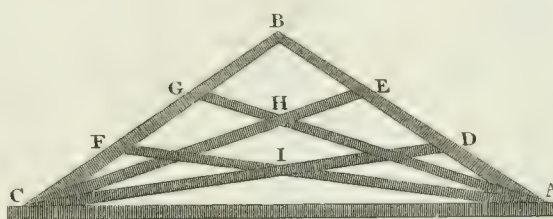


Fig. 6.

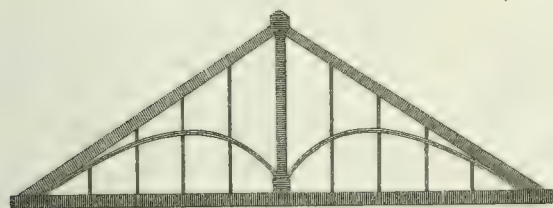


Fig. 5.

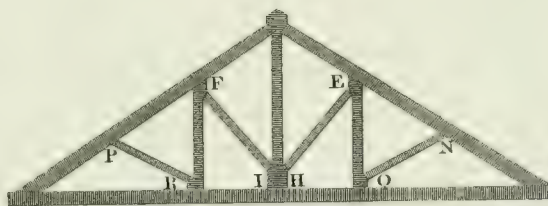


Fig. 8.

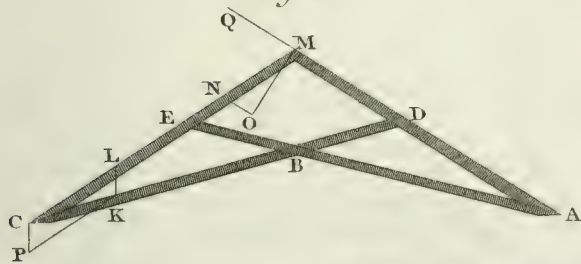


Fig. 7.

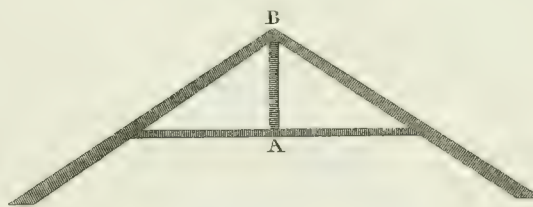
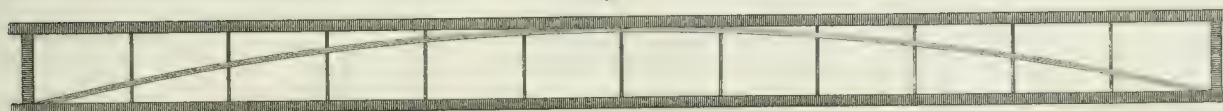


Fig. 9.



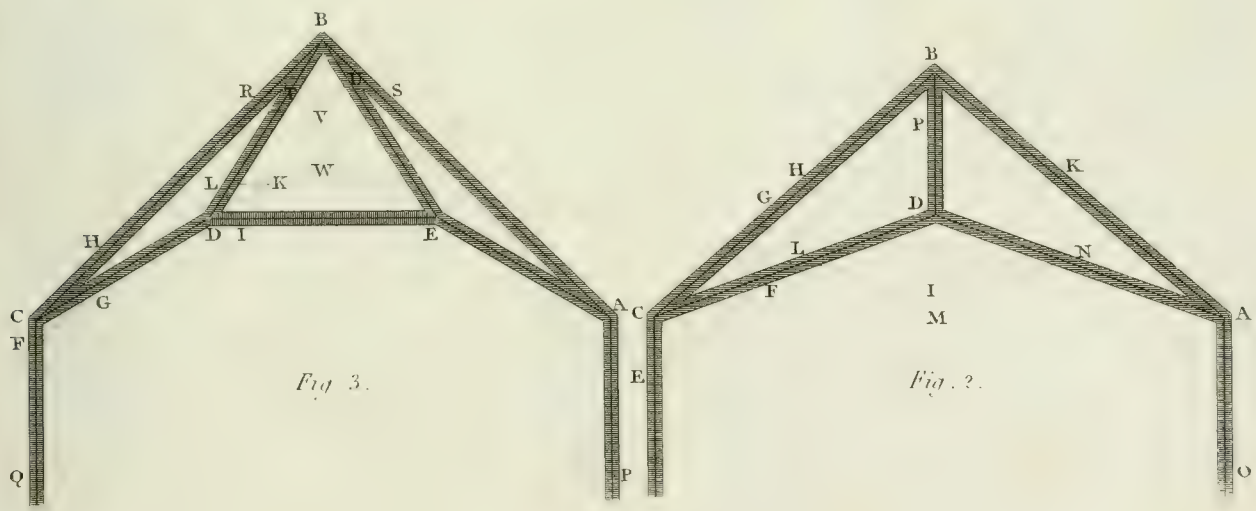
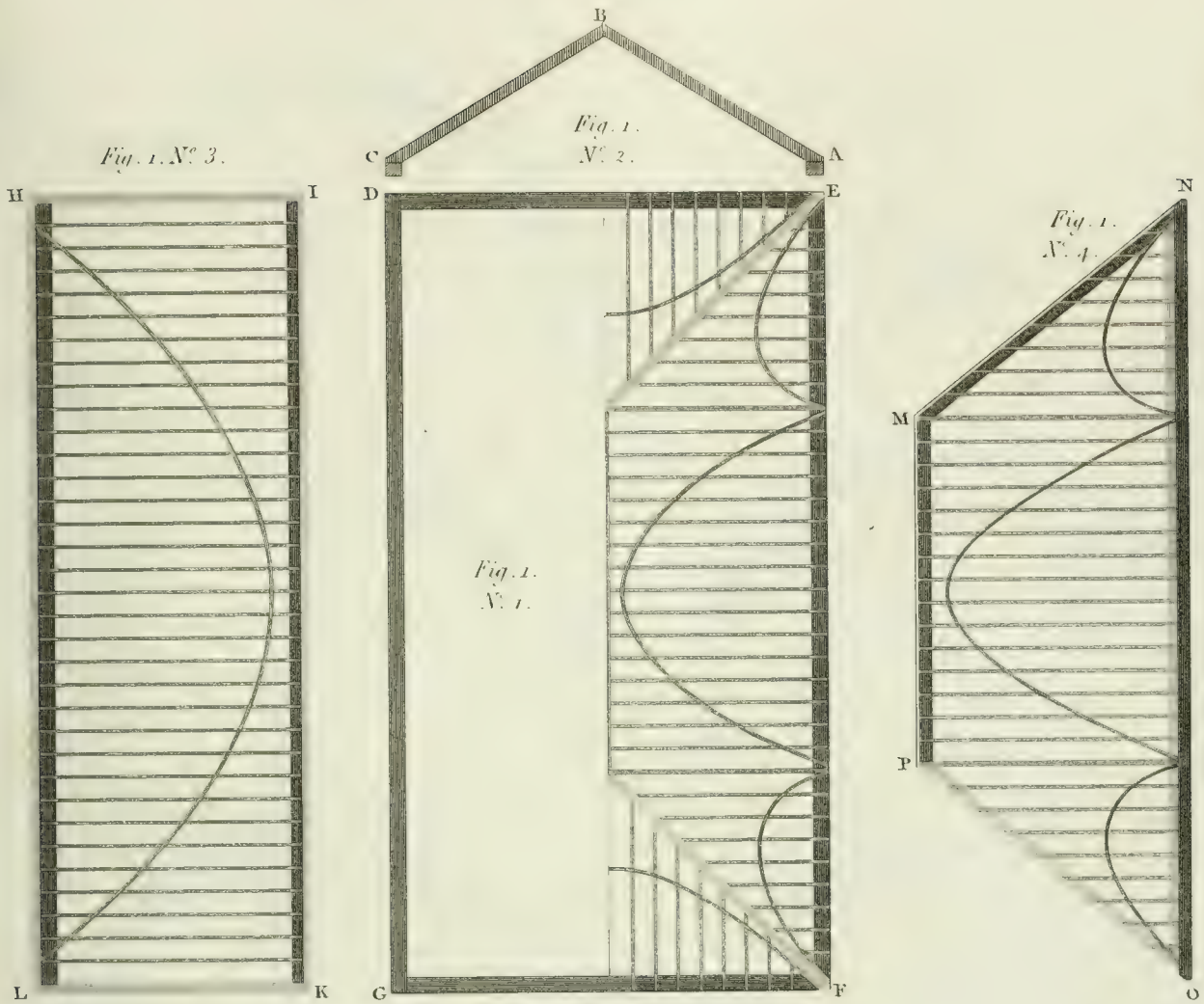
Fig. 10.





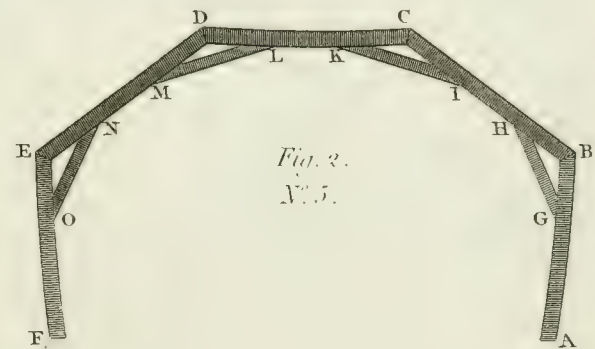
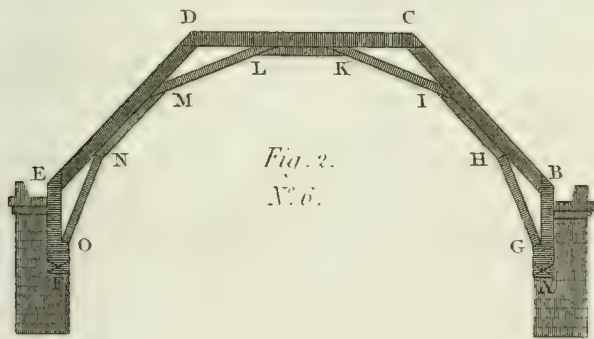
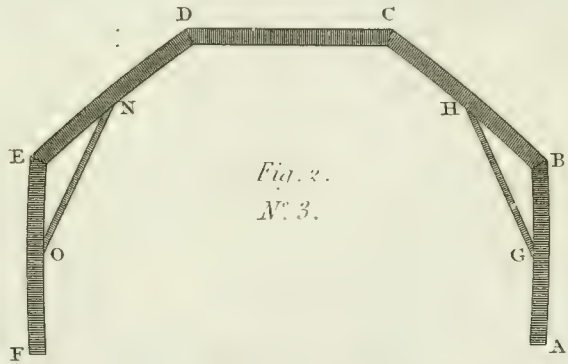
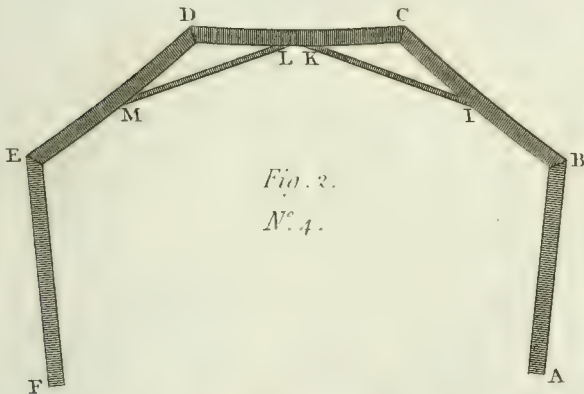
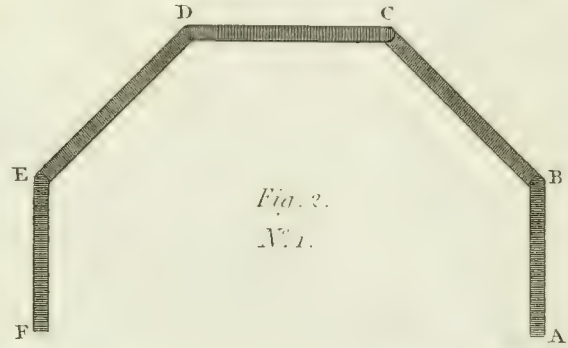
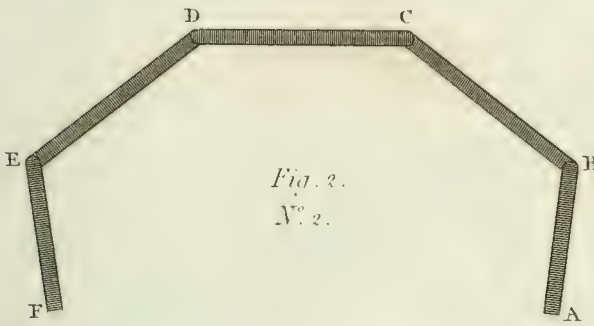
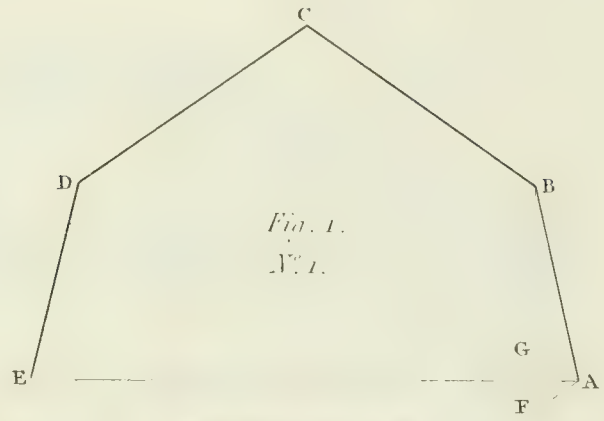
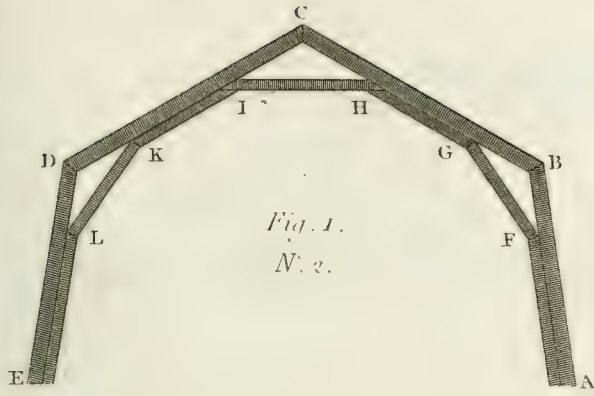


CARPENTRY.





ROOFS.







CARPENTRY.

Fig. 1.

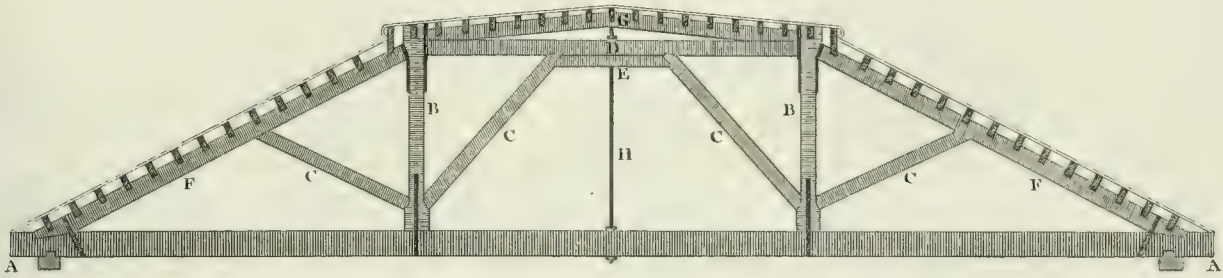


Fig. 2.

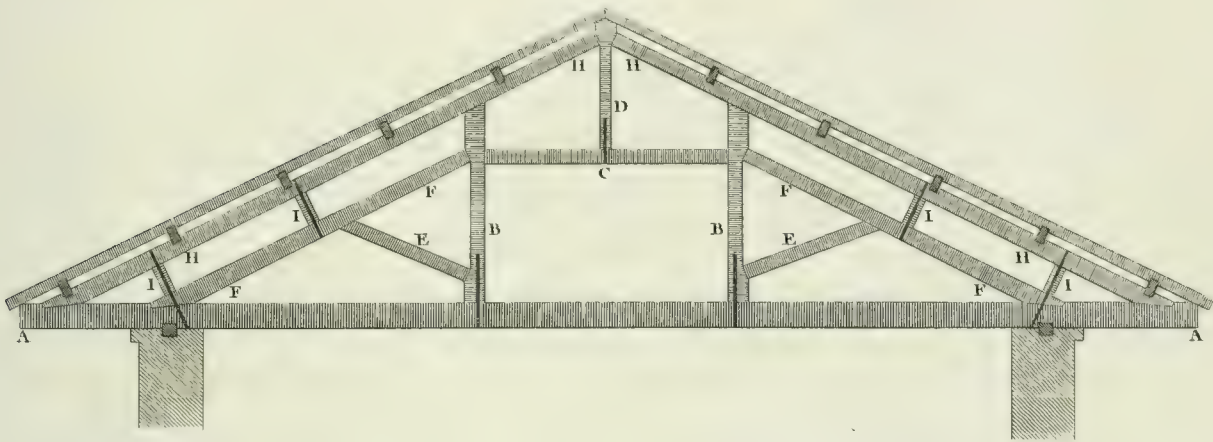
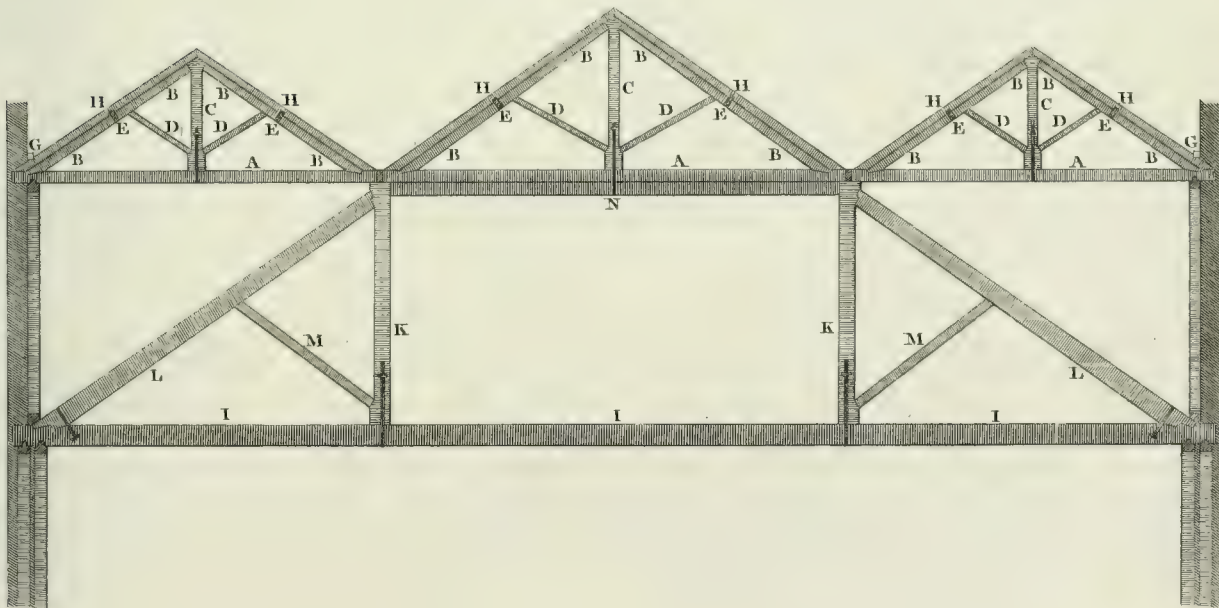


Fig. 3.





ROOFS.

Fig. 2.

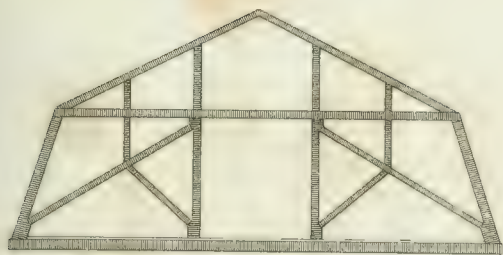


Fig. 1

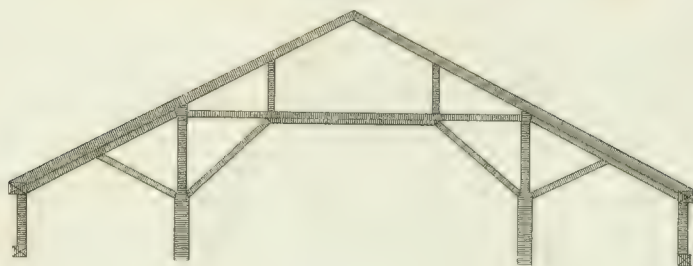


Fig 3.

N<sup>o</sup> 2.

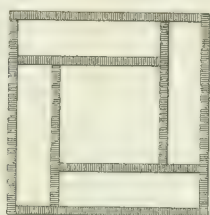


Fig. 4.

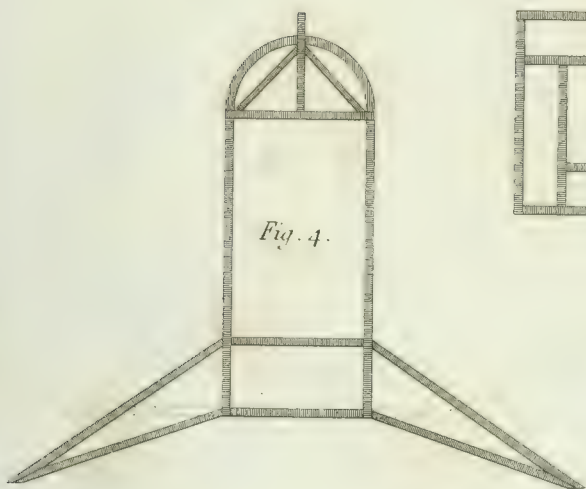


Fig 3.

N<sup>o</sup> 1.

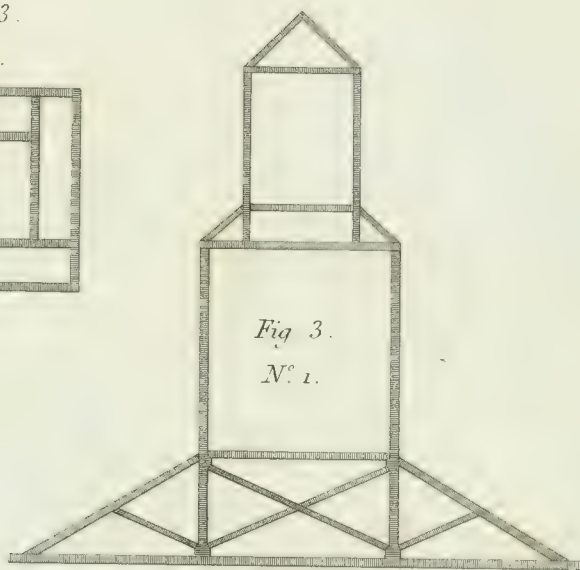


Fig. 5.

N<sup>o</sup> 3.

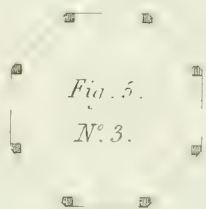


Fig. 5.

N<sup>o</sup> 4.

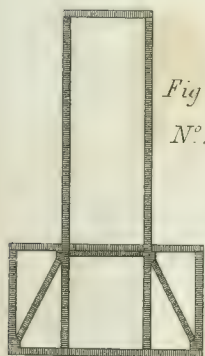


Fig. 5.

N<sup>o</sup> 1.

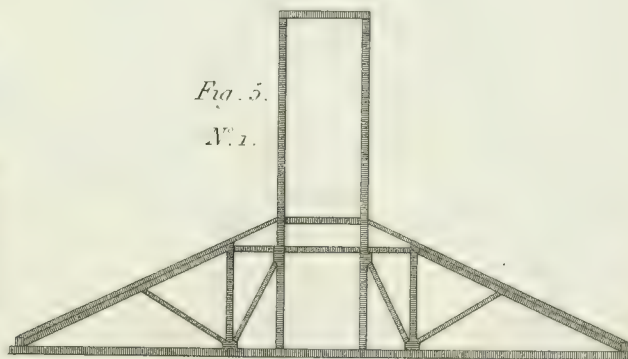
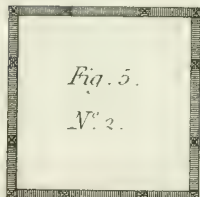


Fig. 5.

N<sup>o</sup> 2.

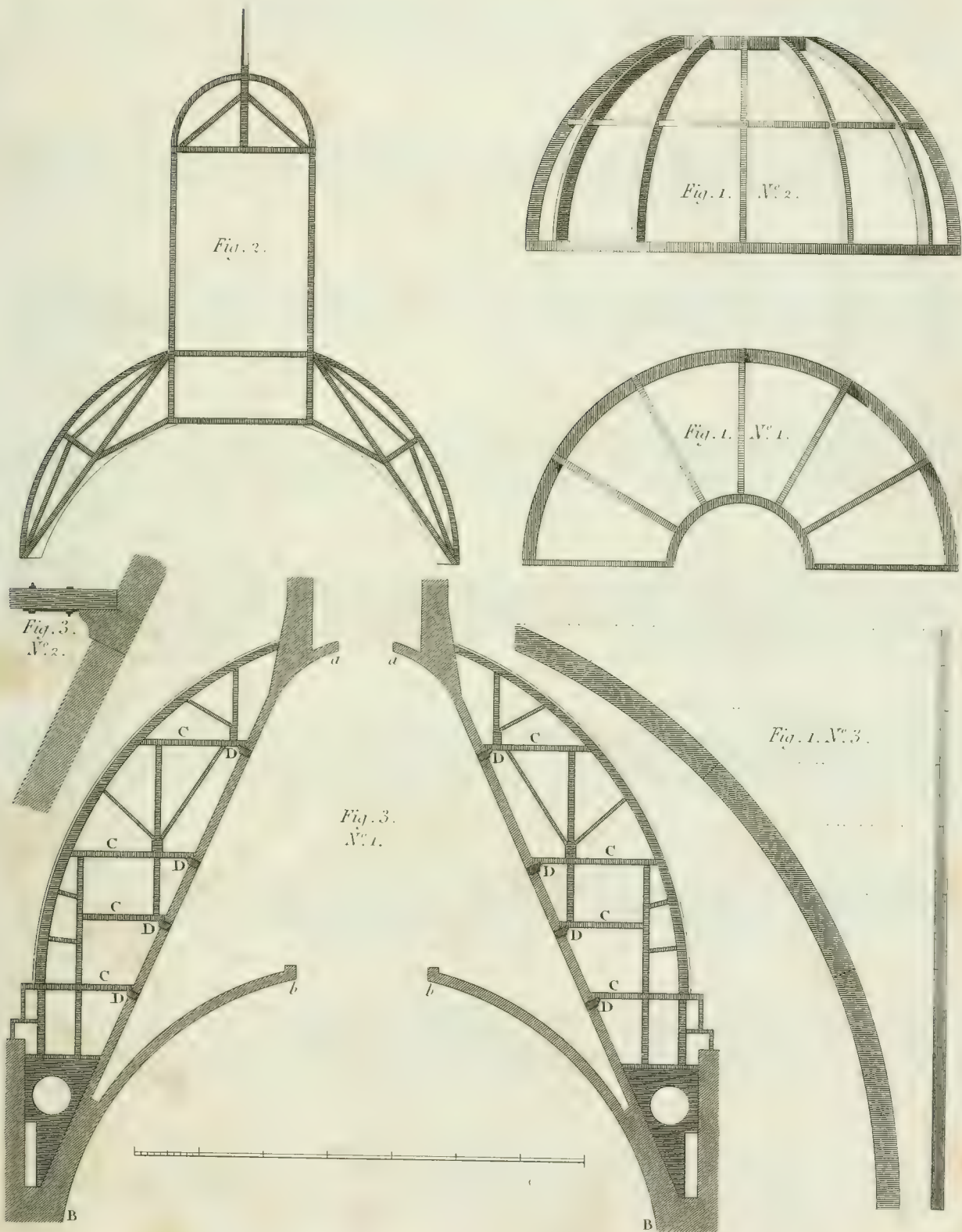






CARPENTRY,

ROOFS.





CARPENTRY.

Fig. 1.

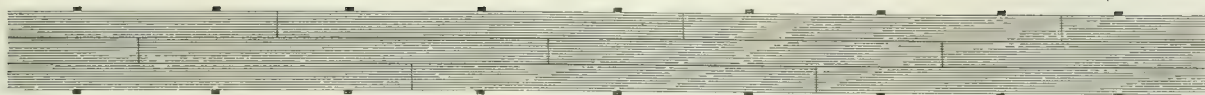


Fig. 3.

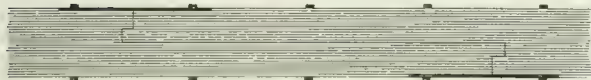


Fig. 2.

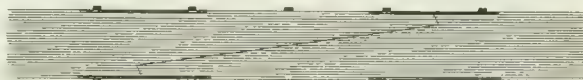


Fig. 5.



Fig. 4.



Fig. 6.



Fig. 7.

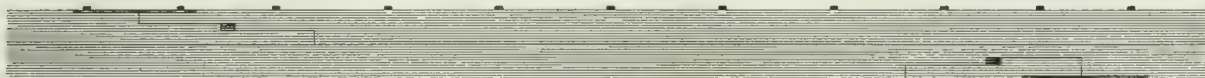


Fig. 8.

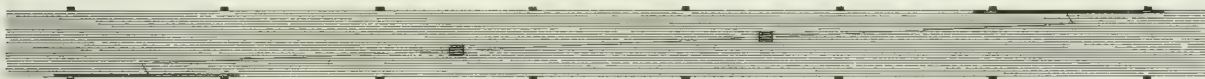


Fig. 9.  
Nos 3 & 4.



Fig. 9 N° 1.

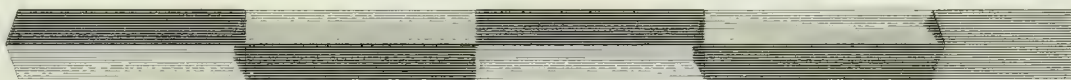


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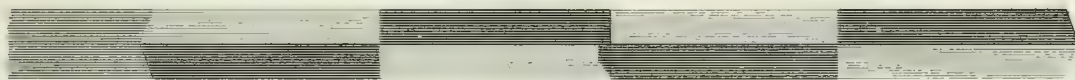
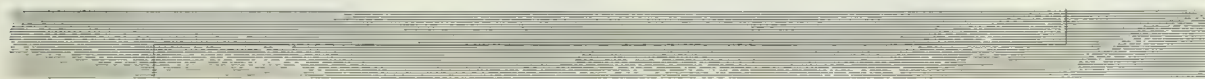
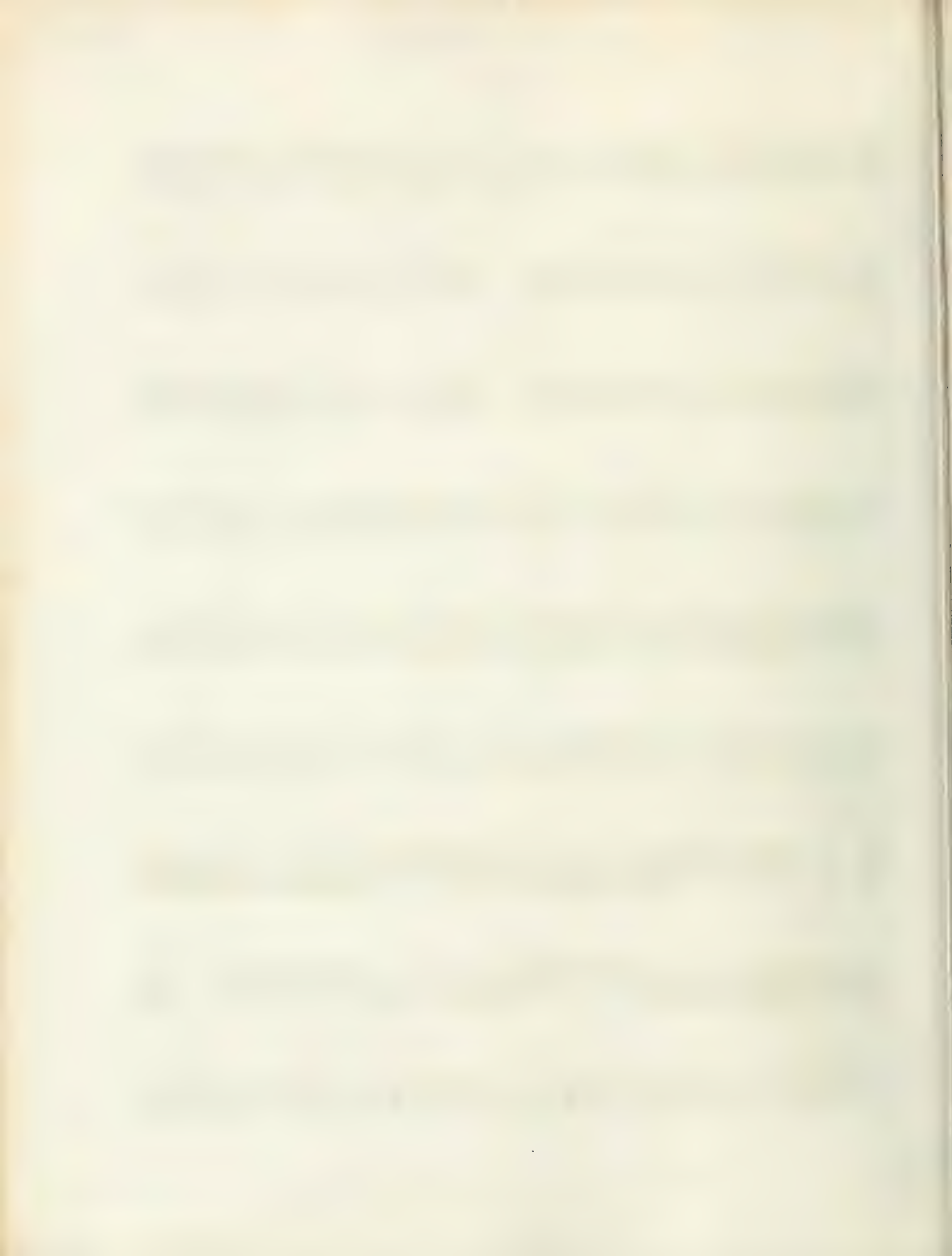


Fig. 9  
N° 5.



Fig. 9 N° 6.







CARPENTRY.

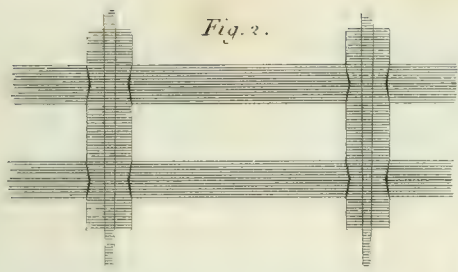


Fig. 2.

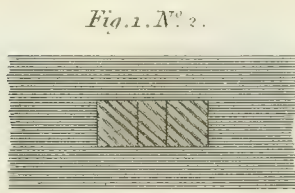


Fig. 1. N° 2.

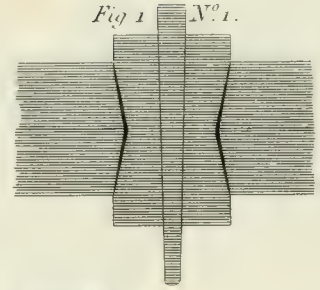


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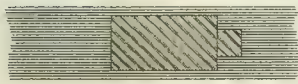


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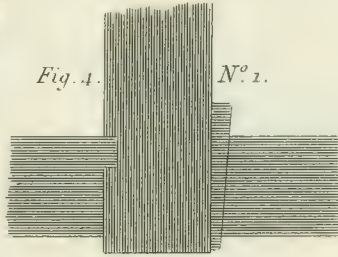


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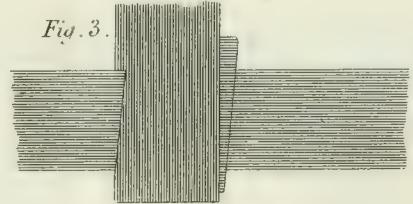


Fig. 3.

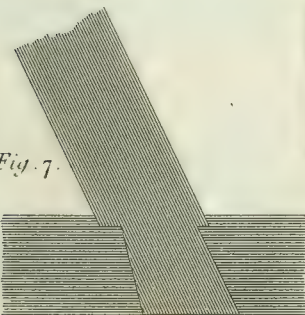


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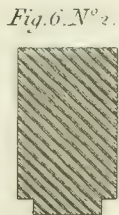


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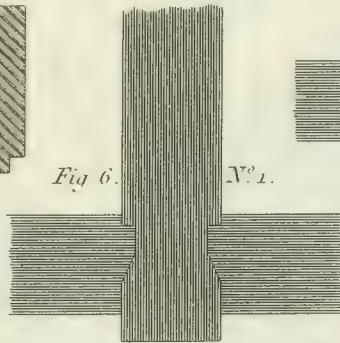


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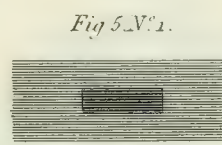


Fig. 5. N° 1.



Fig. 5. N° 2.



Fig. 10. N° 1.

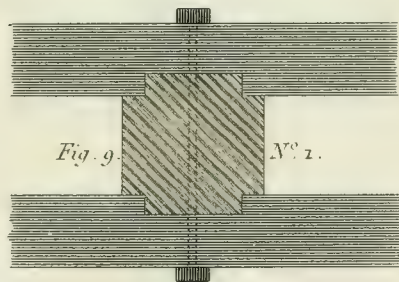
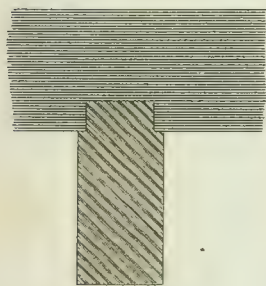


Fig. 9. N° 1.

Fig. 8. N° 1.

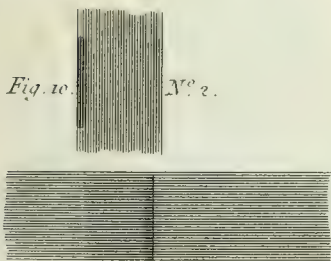
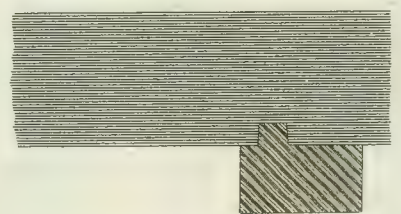


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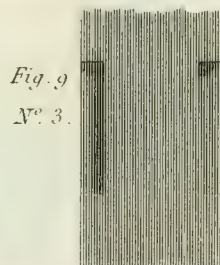


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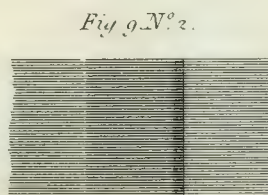


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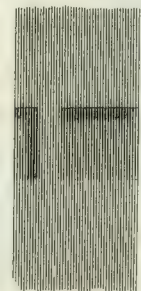


Fig. 8. N° 2.



CARPENTRY.

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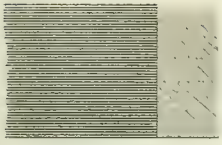


Fig. 2. N. 1.



Fig. 3. N. 1.

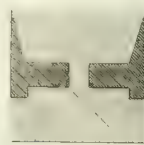


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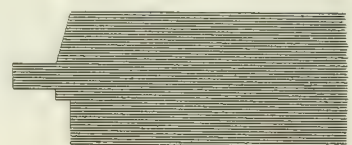


Fig. 3.

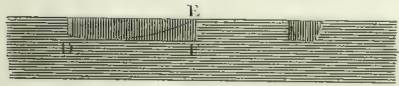
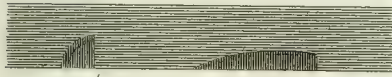


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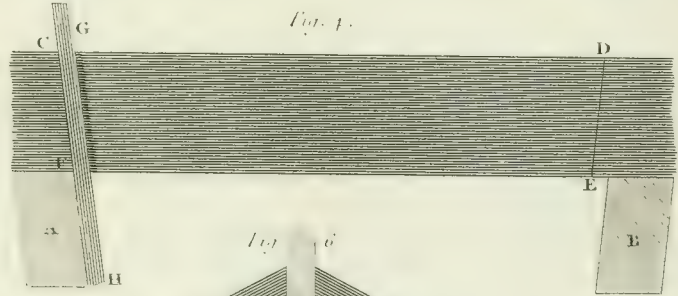
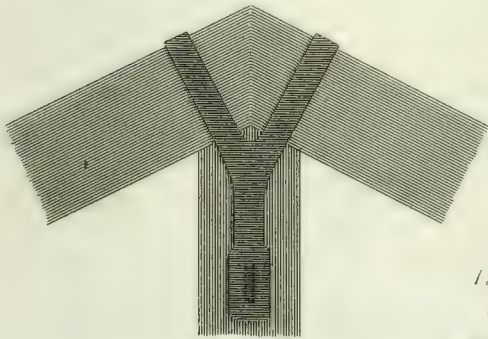


Fig. 4.

Fig. 5.

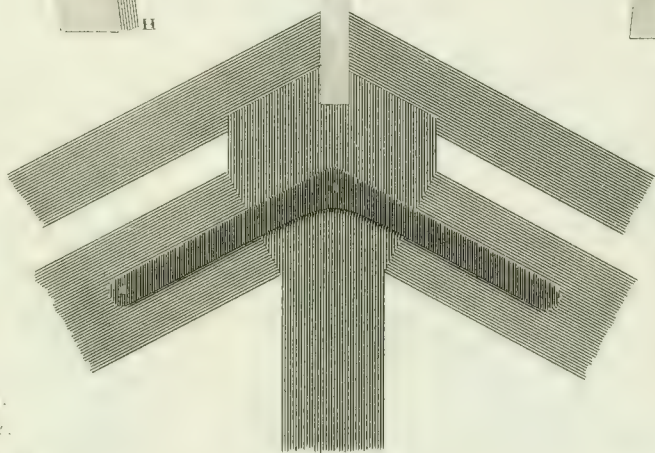


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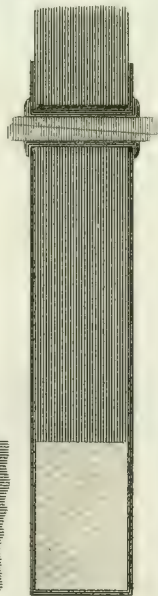


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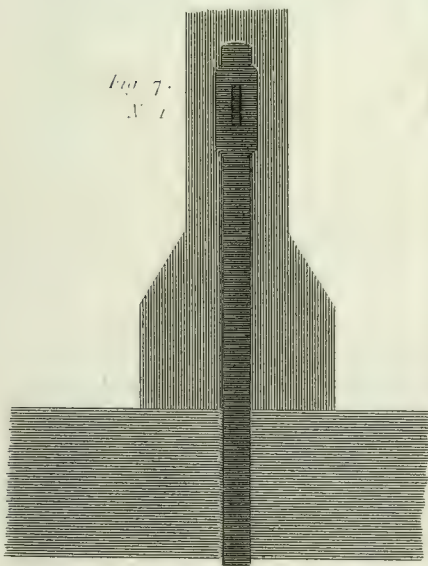


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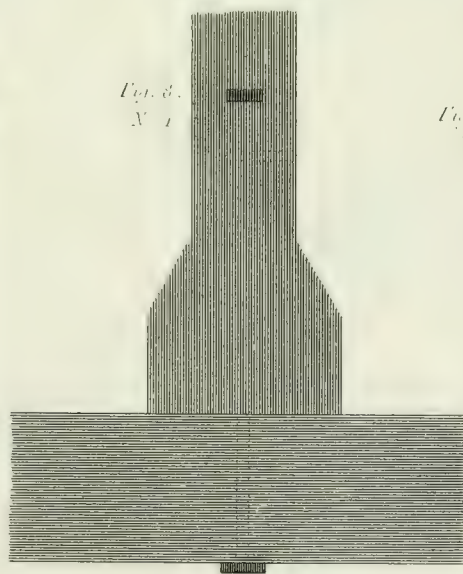
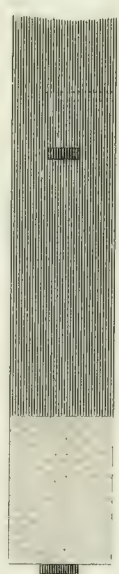


Fig. 8. N. 2.







CARPENTRY.

Fig. 4. N. 1.

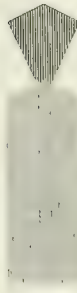


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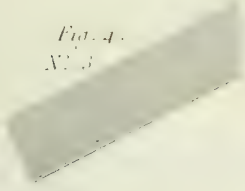


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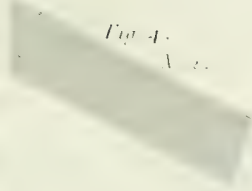


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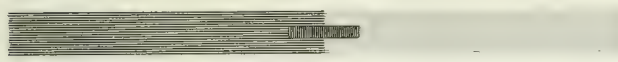


Fig. 1.



Fig. 2.



Fig. 5.

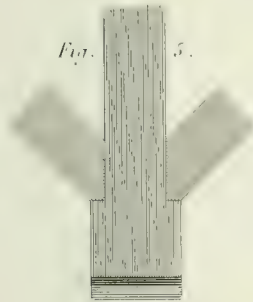


Fig. 3.



Fig. 6.

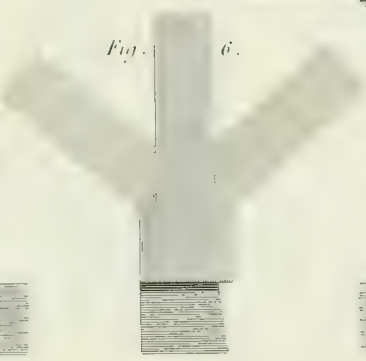


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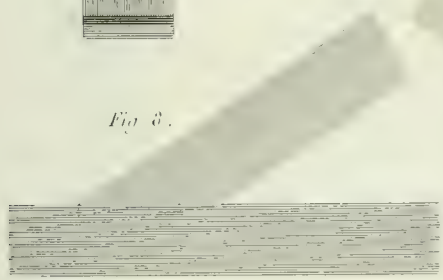


Fig. 7.



Fig. 10. N. 2.

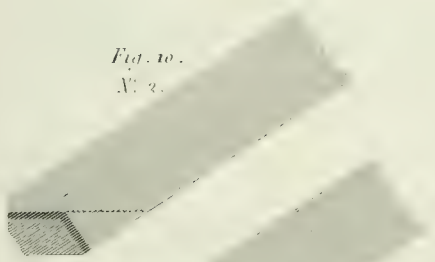


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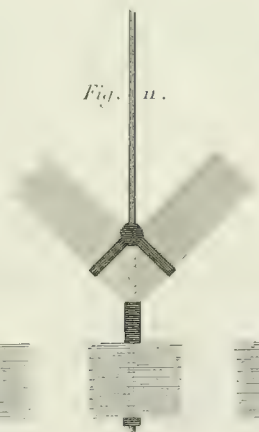


Fig. 9. N. 2.

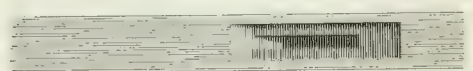


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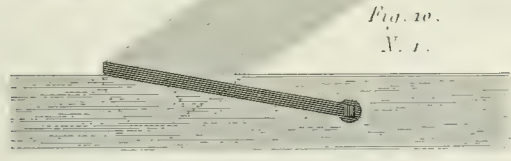
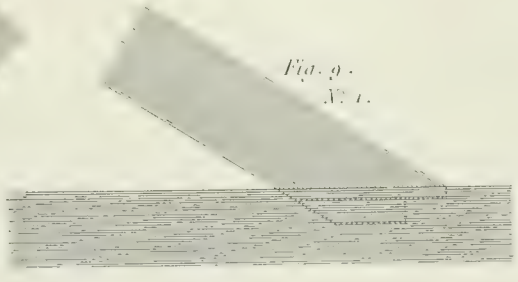
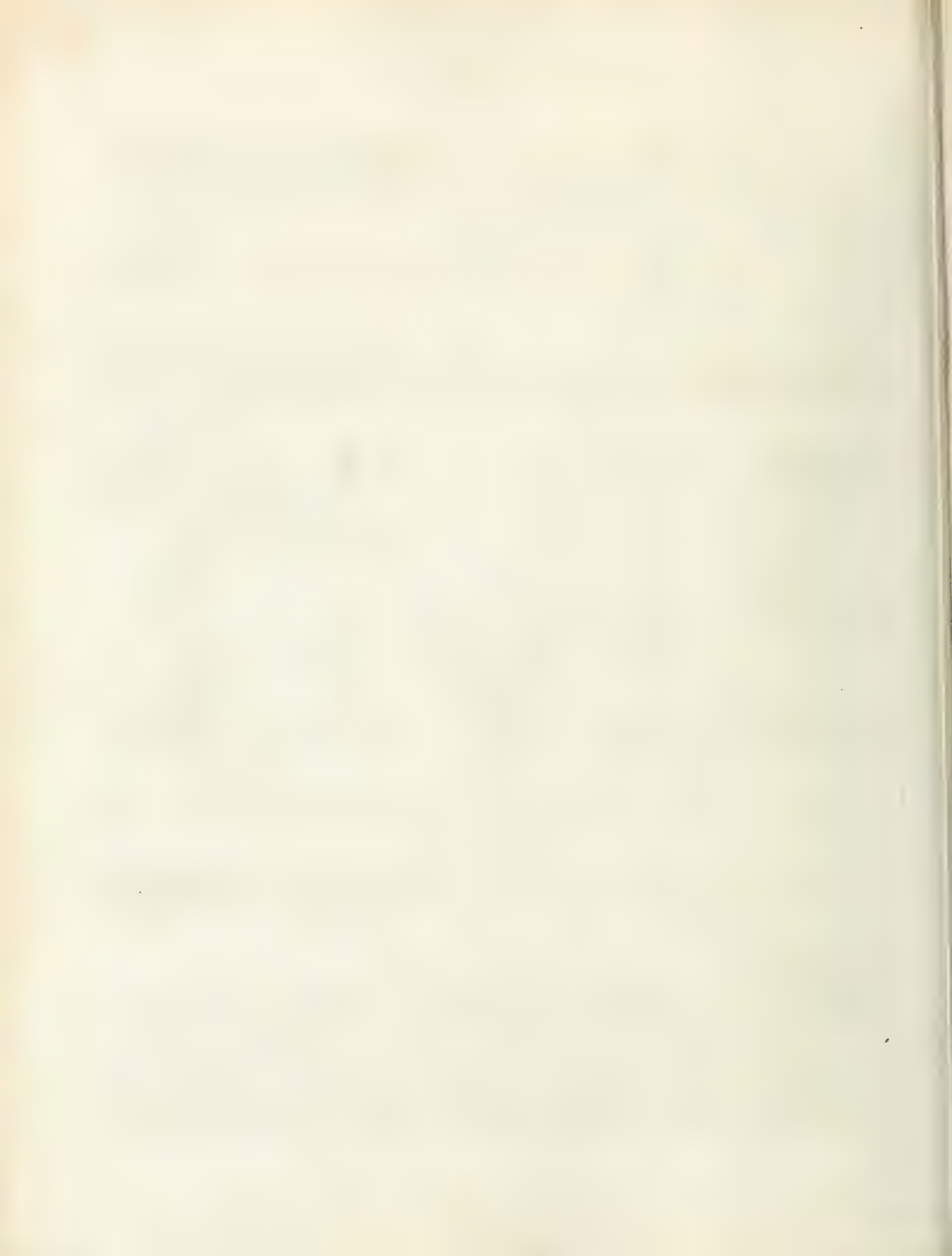


Fig. 9. N. 1.





ARCHITECTURE.

CARPENTRY.

Fig. 1.

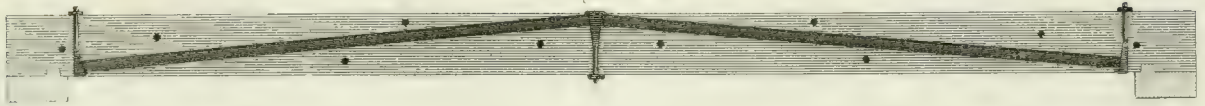


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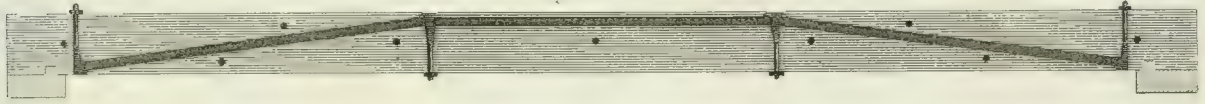


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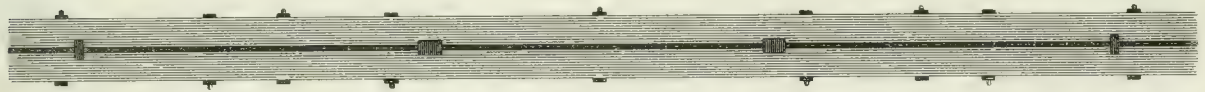


Fig. 2. N° 7.



Fig. 2. N° 6.

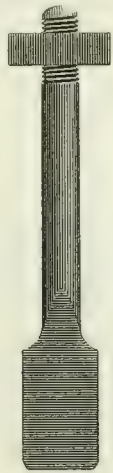


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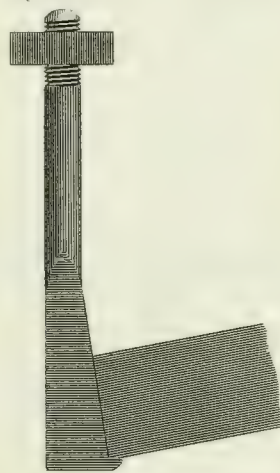


Fig. 2. N° 4.



Fig. 2. N° 3.

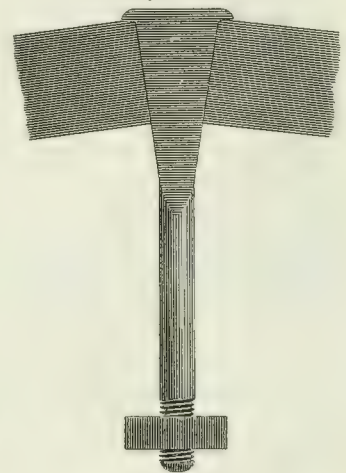


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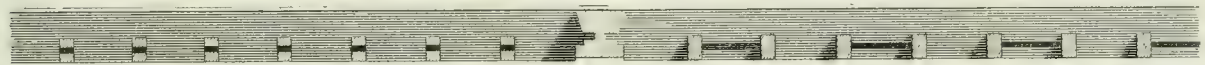


Fig. 3. N° 2.



Fig. 4. N° 1.

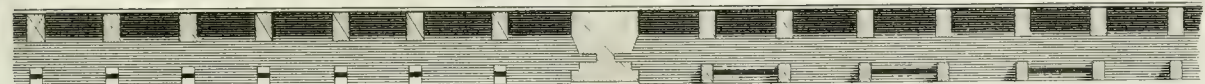
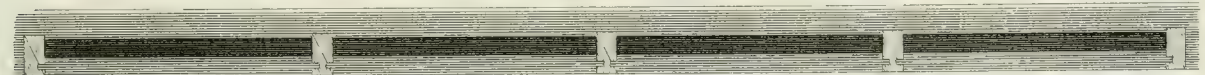
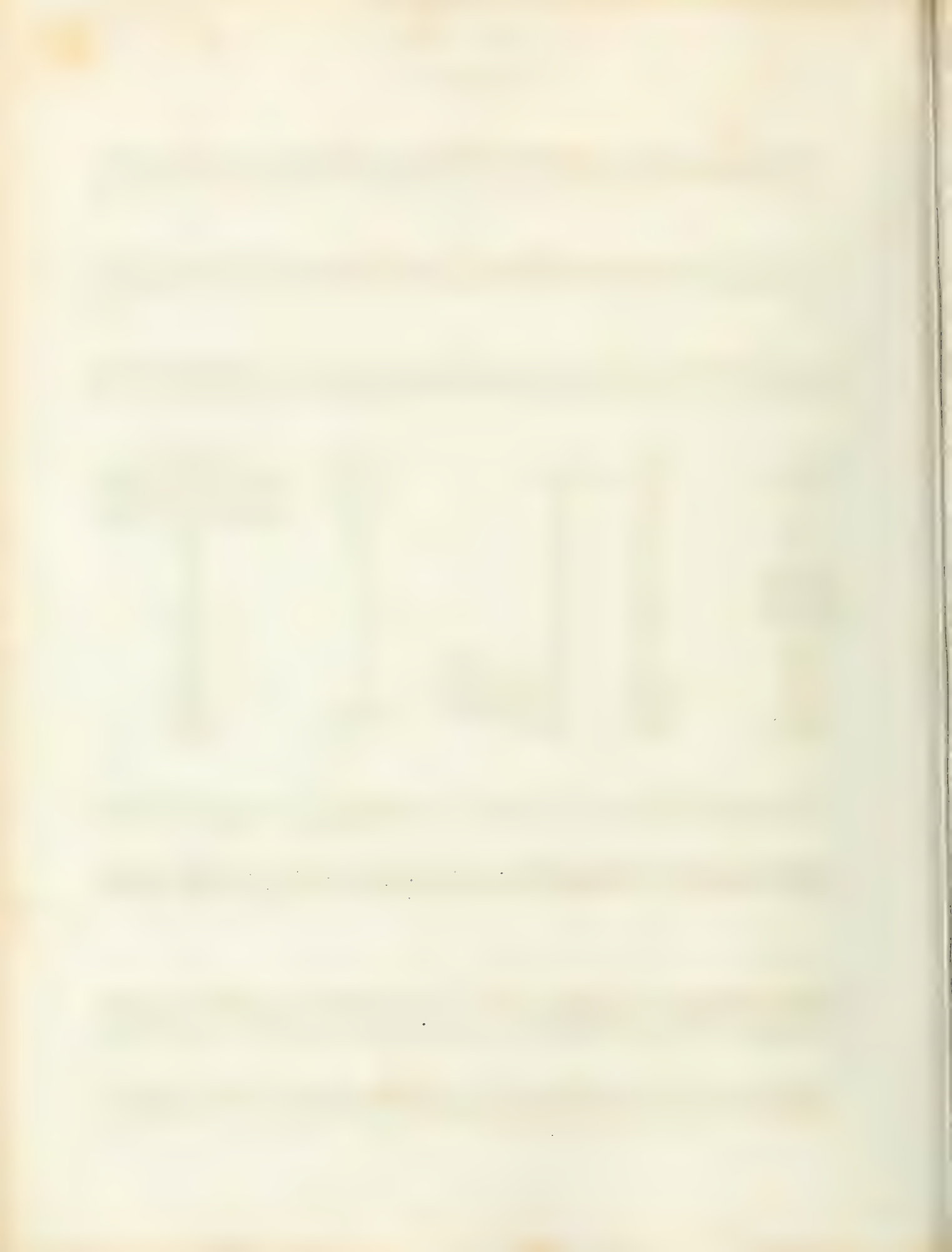


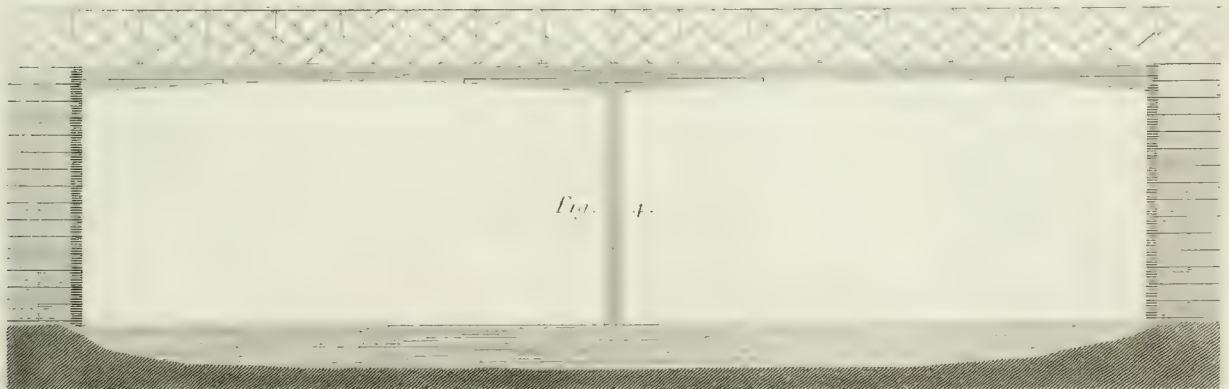
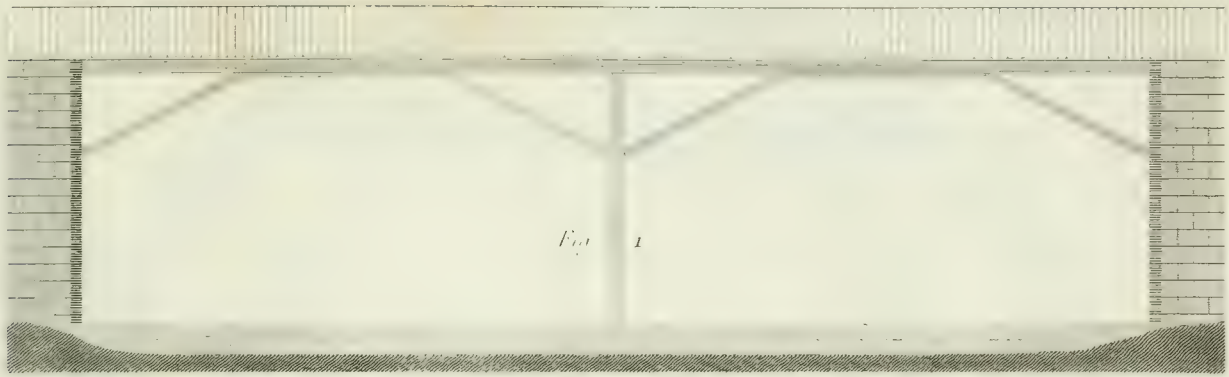
Fig. 4. N° 2.







BRIDGES.





CENTRES.

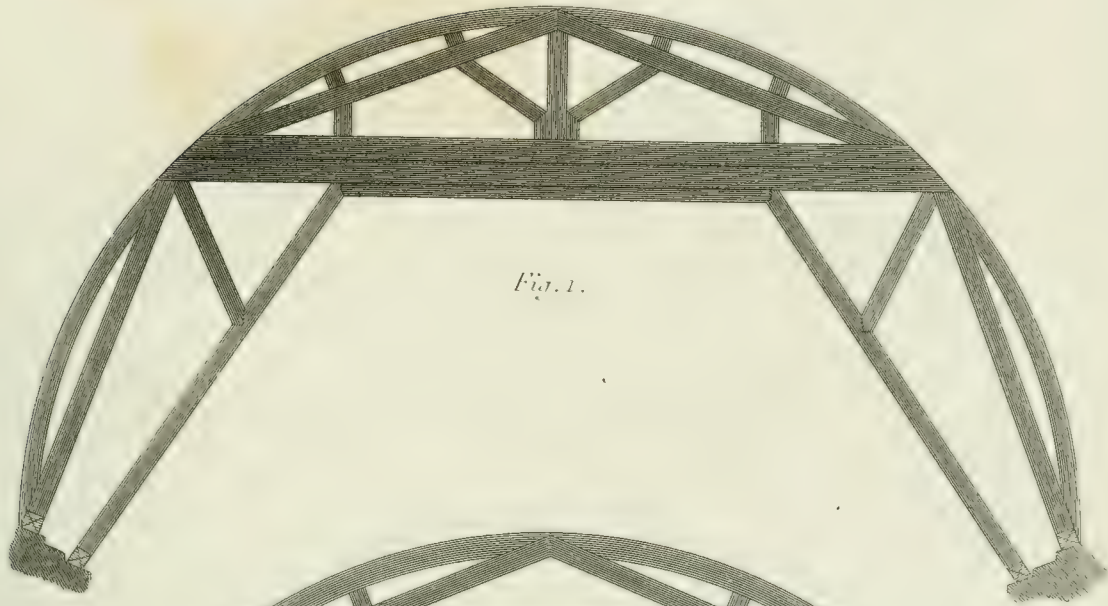


Fig. 1.



Fig. 2.

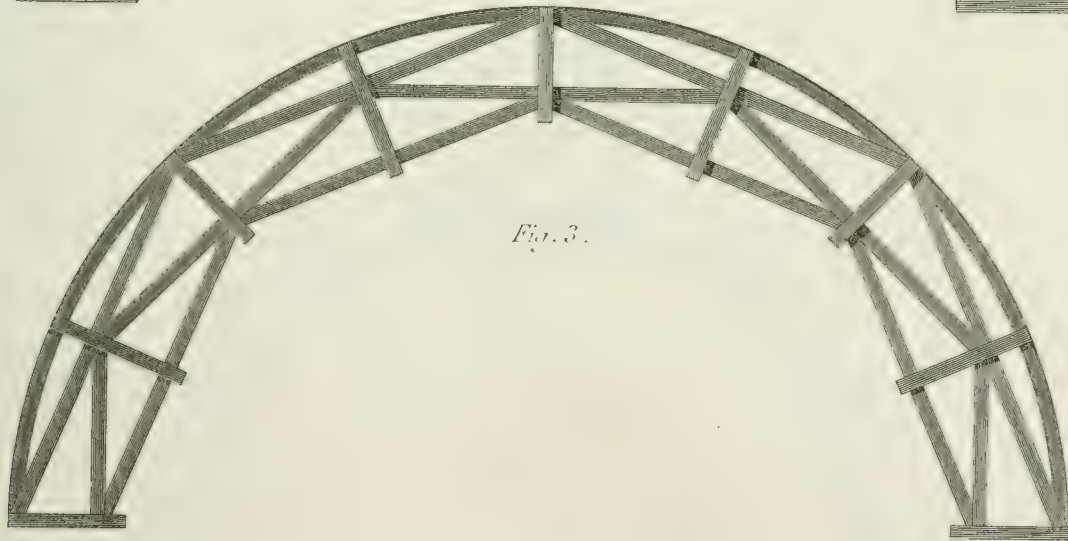


Fig. 3.





CENTRES.



Fig. 1.

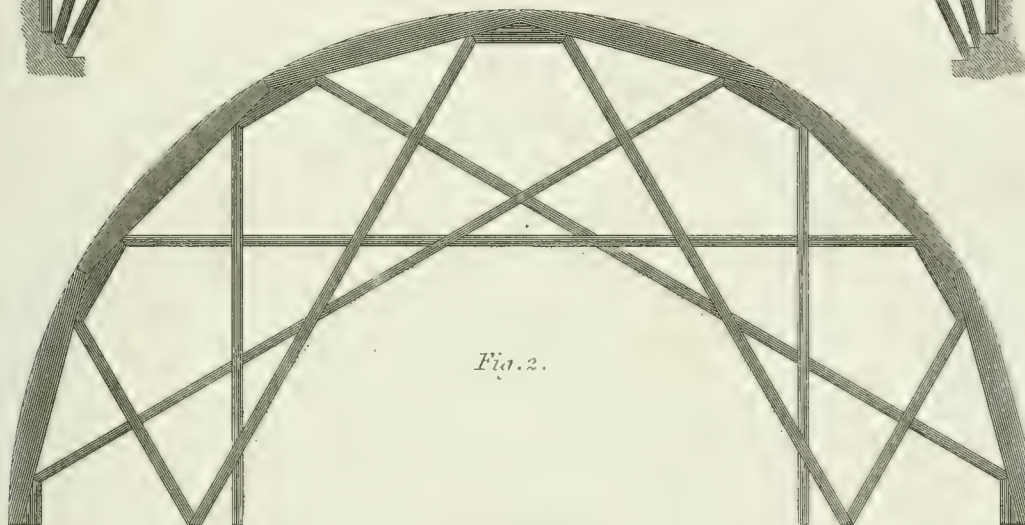


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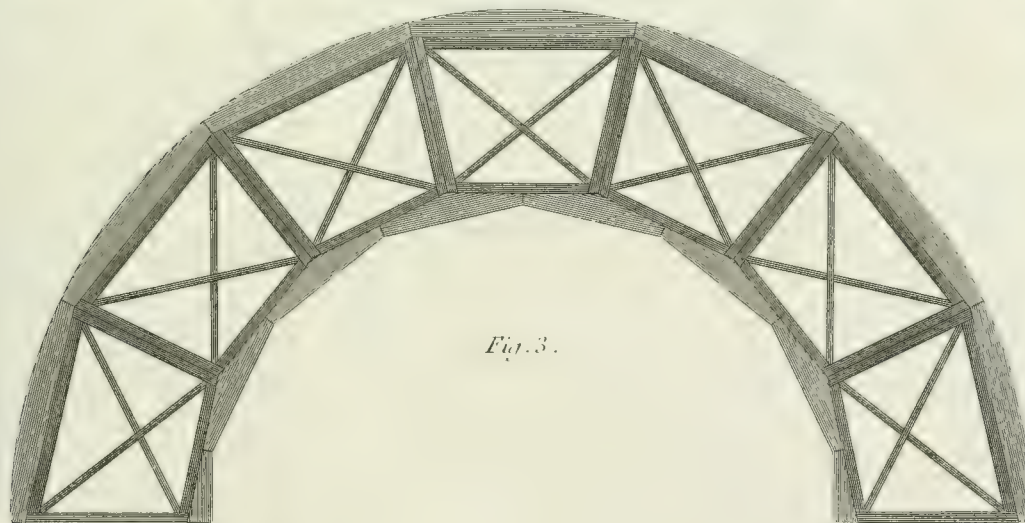


Fig. 3.



CENTRES.



Fig. 1.



Fig. 2.

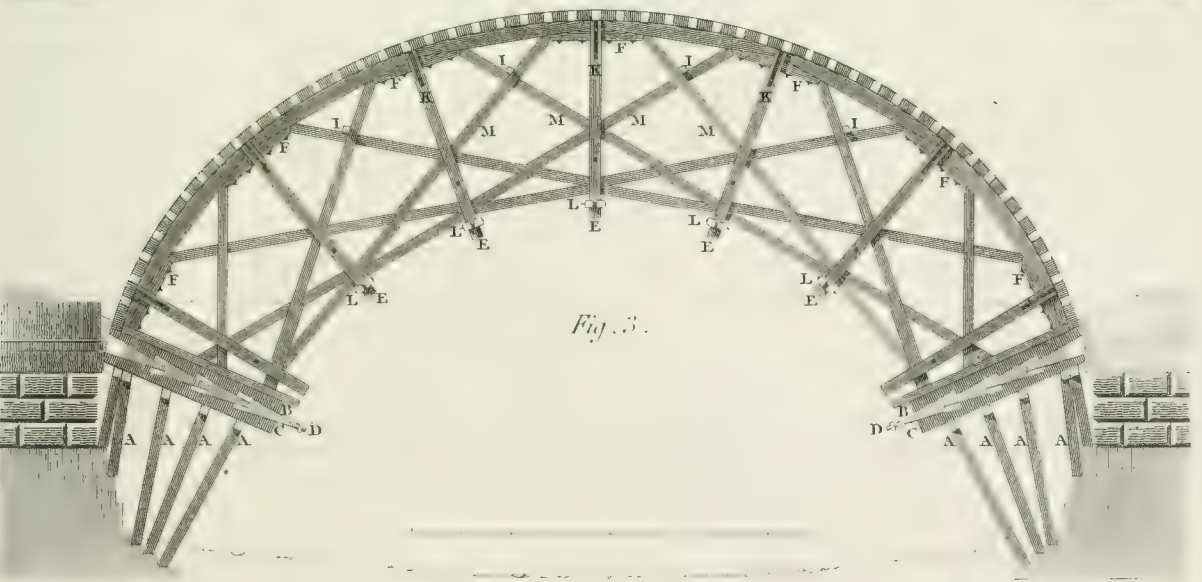


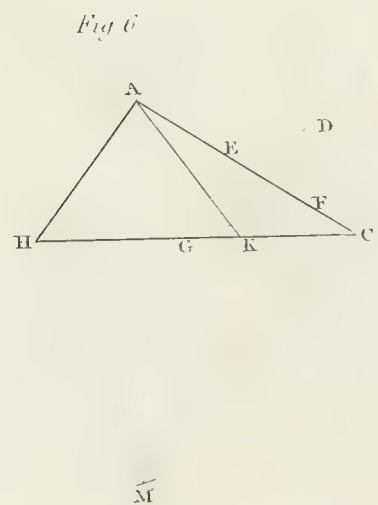
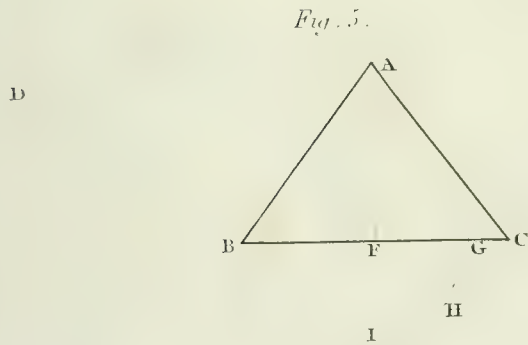
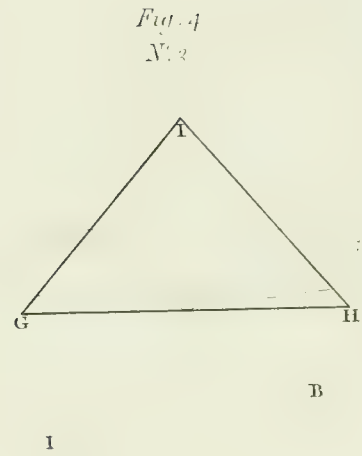
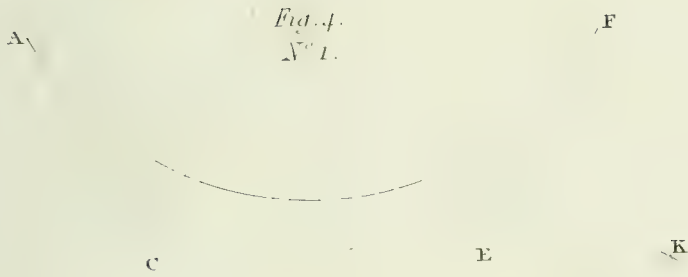
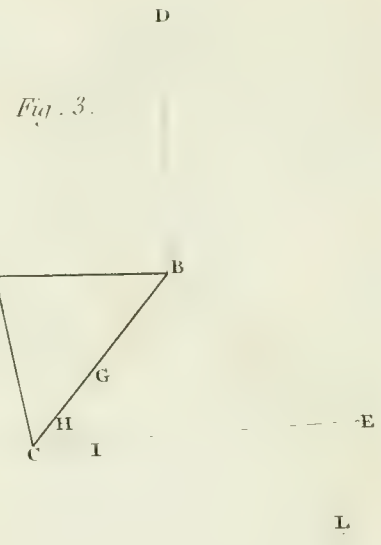
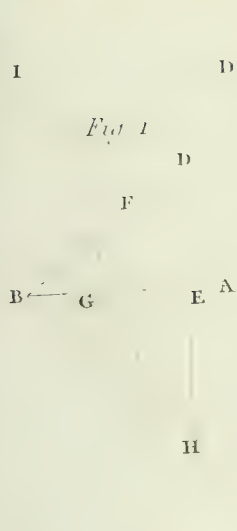
Fig. 3.





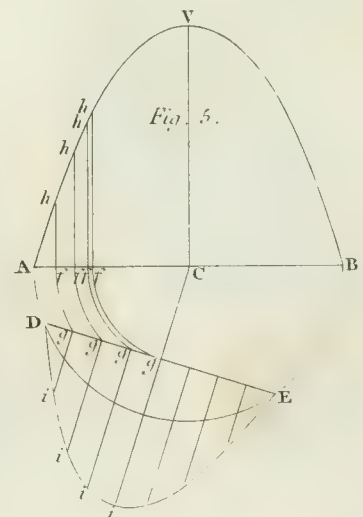
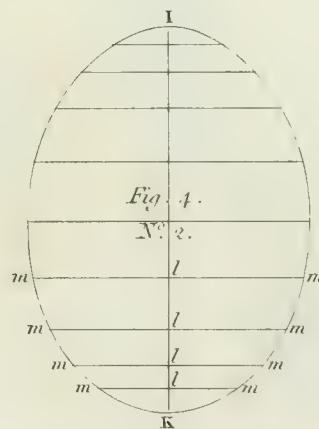
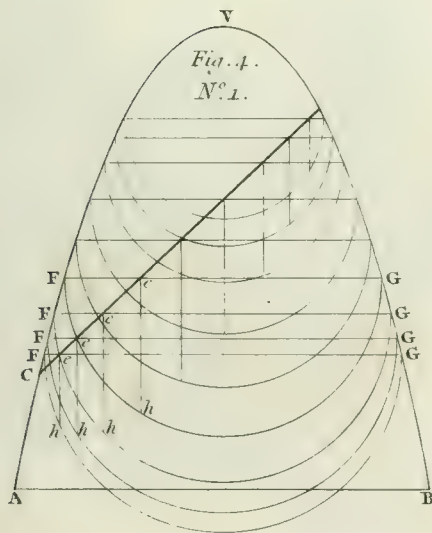
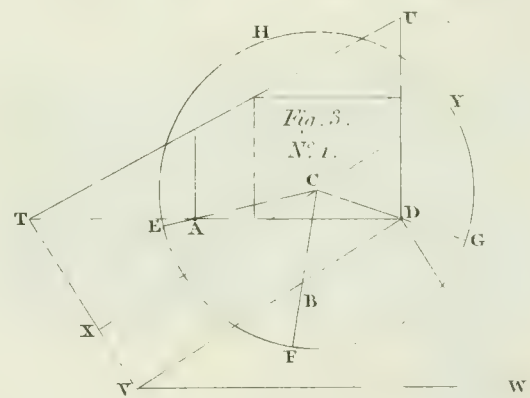
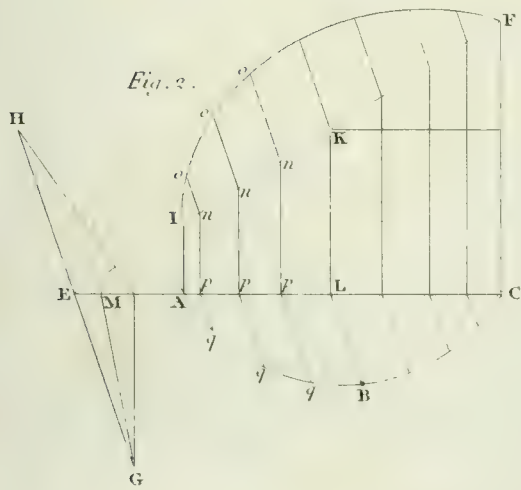
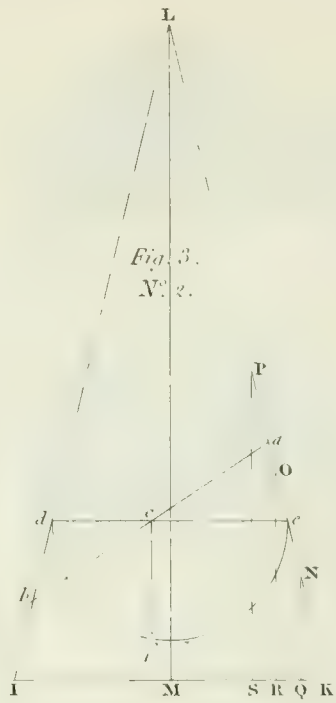
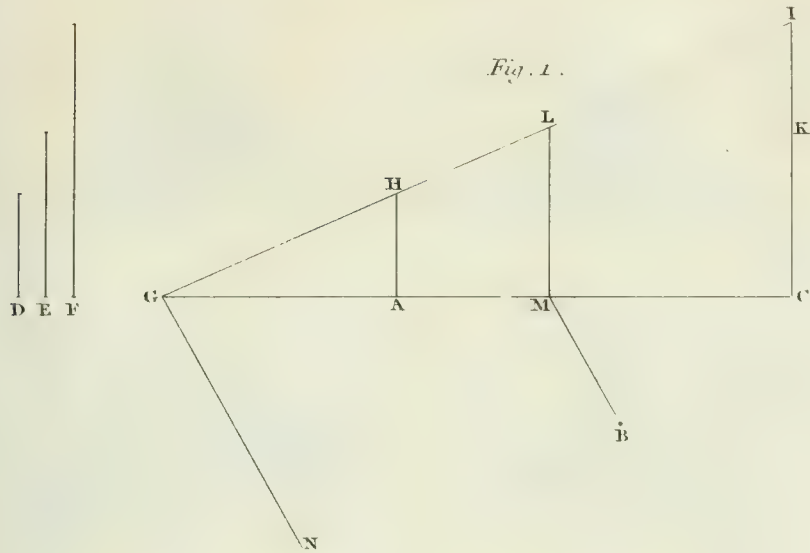
ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.





GEOMETRICAL PRINCIPLES OF CARPENTRY.







GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 3. N<sup>o</sup>. 2.



Fig. 3. N<sup>o</sup>. 2.

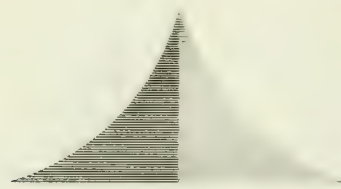


Fig. 1. N<sup>o</sup>. 2.

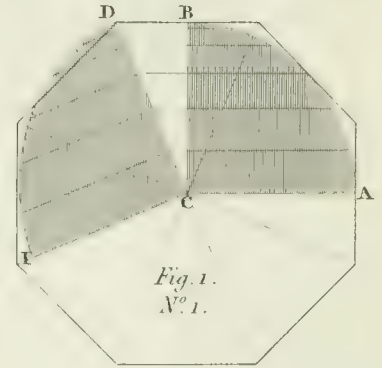
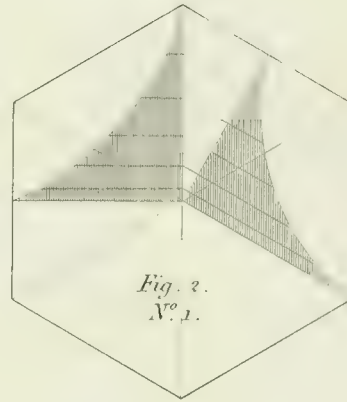
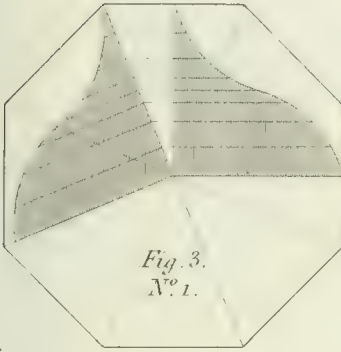


Fig. 5.

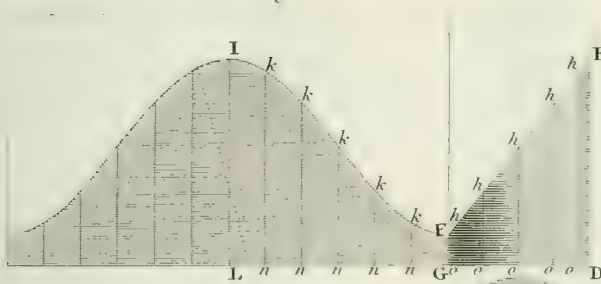


Fig. 4. N<sup>o</sup>. 1.

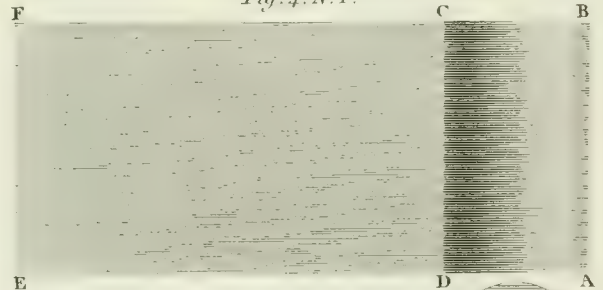


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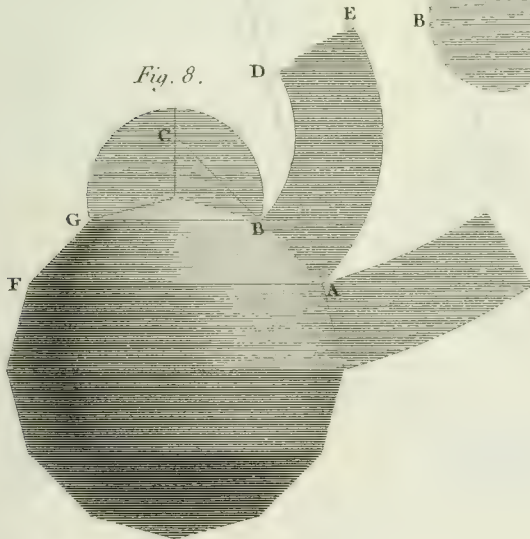


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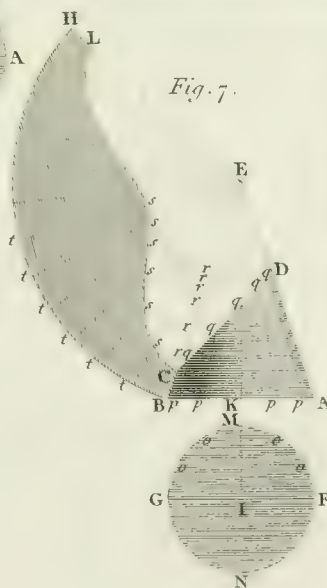
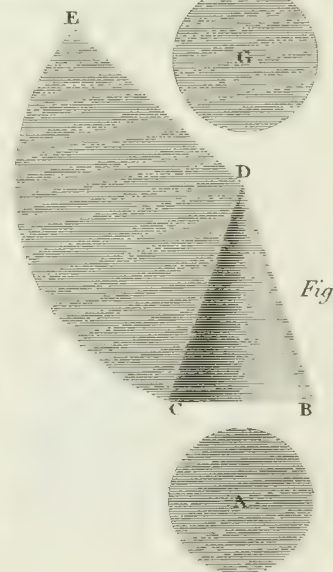
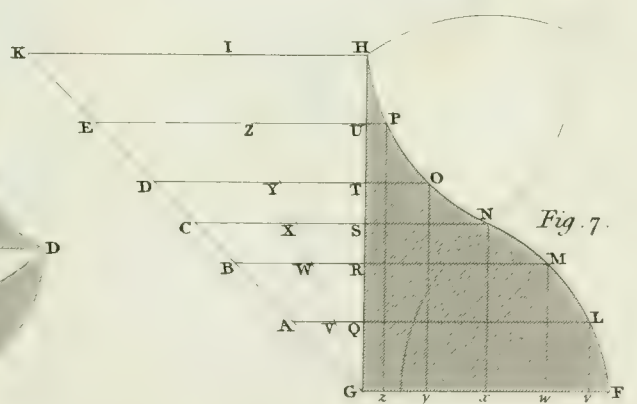
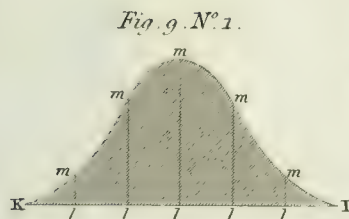
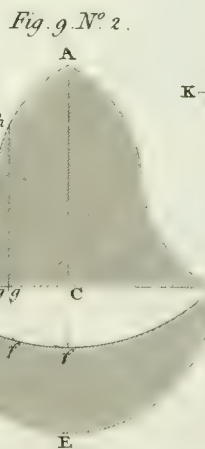
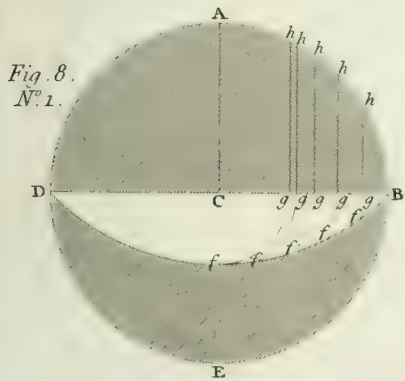
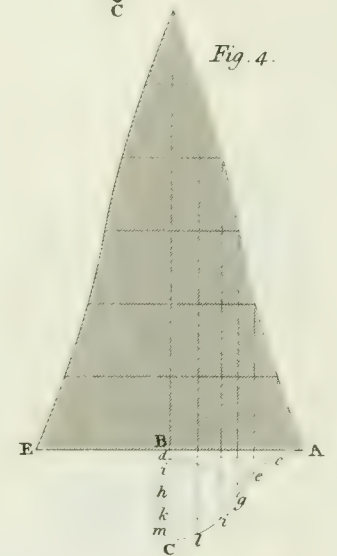
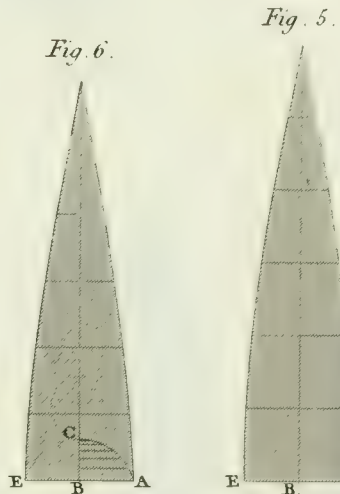
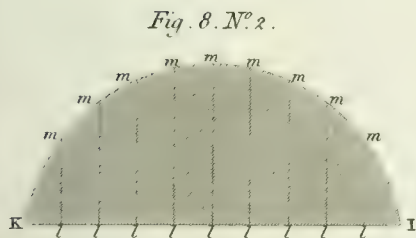
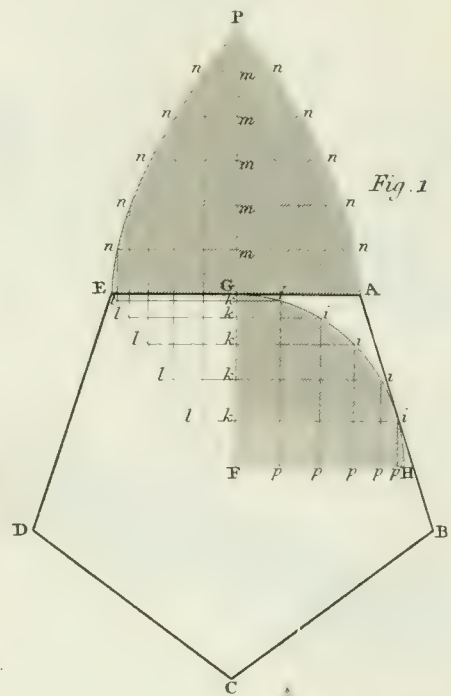
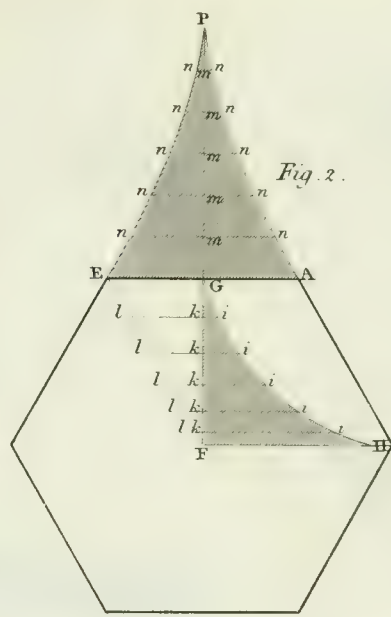
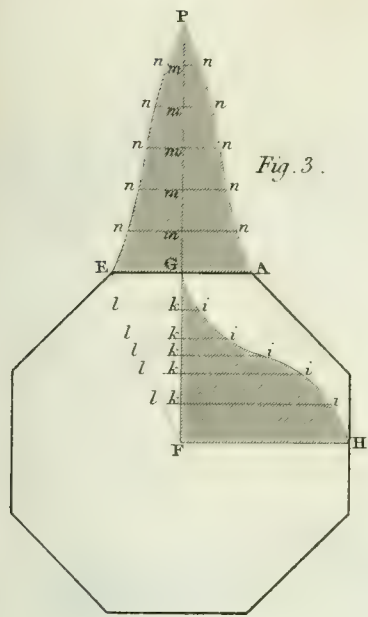


Fig. 6.





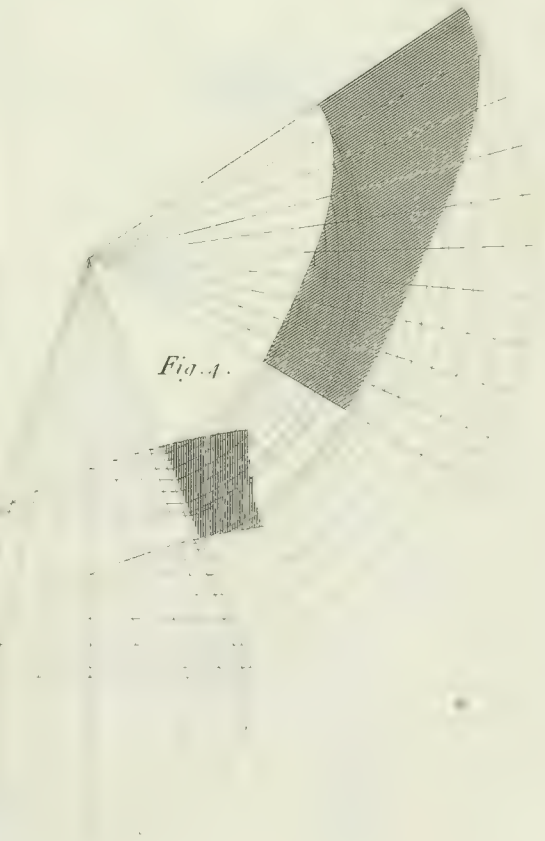
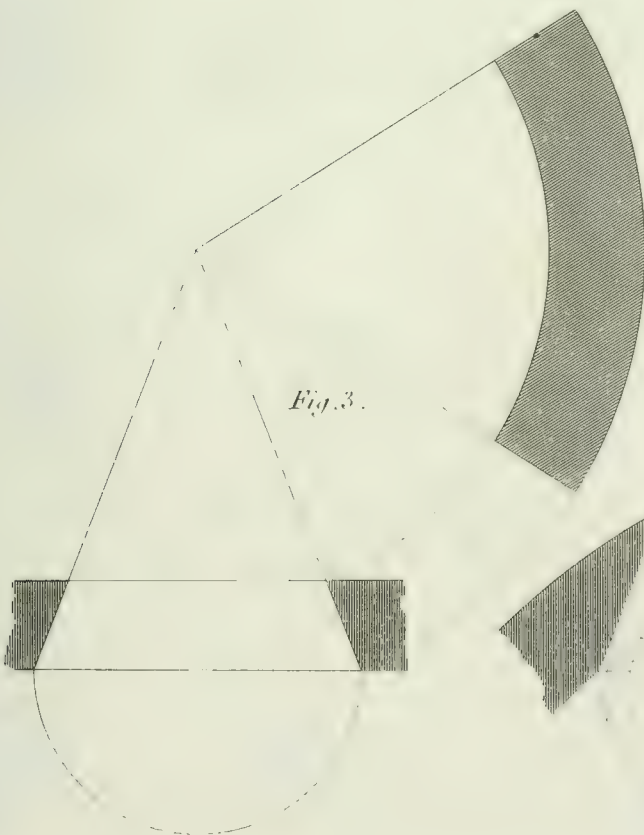
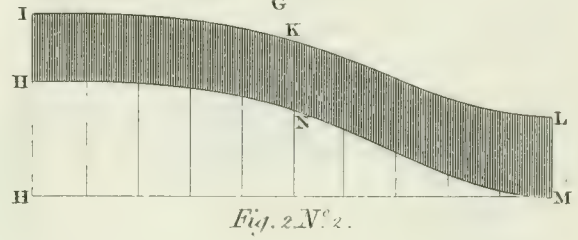
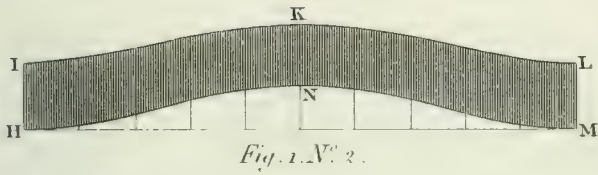
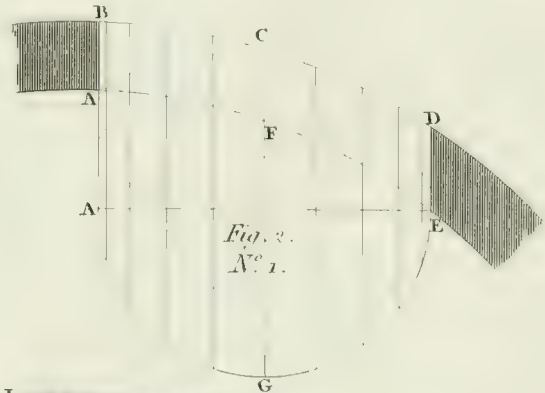
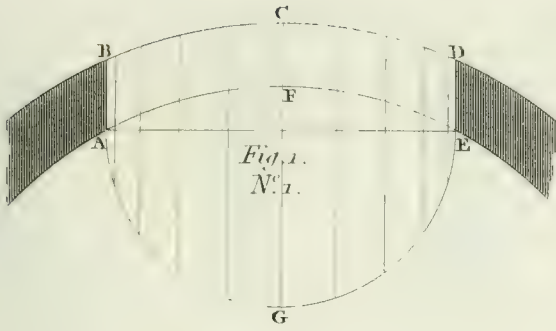
GEOMETRICAL PRINCIPLES OF CARPENTRY.







GEOMETRICAL PRINCIPLES OF CARPENTRY.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

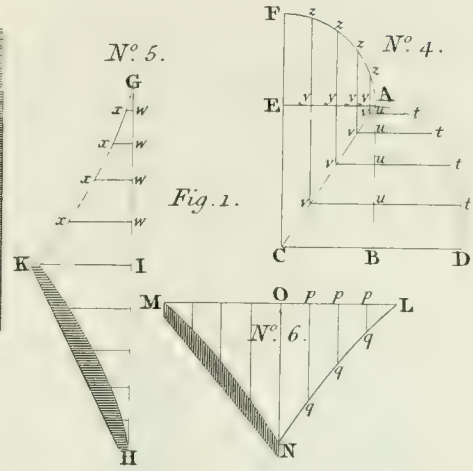
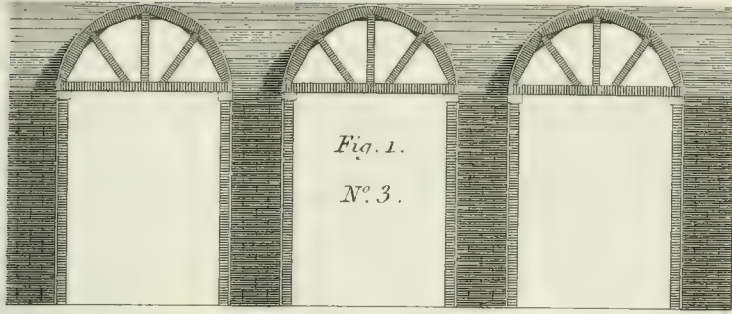
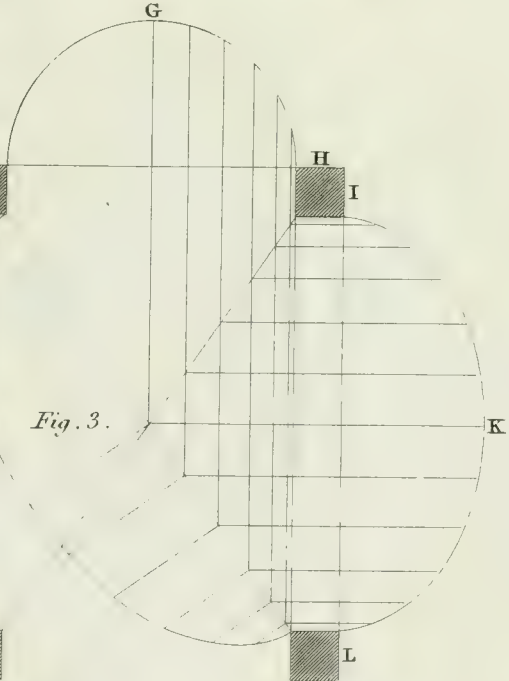
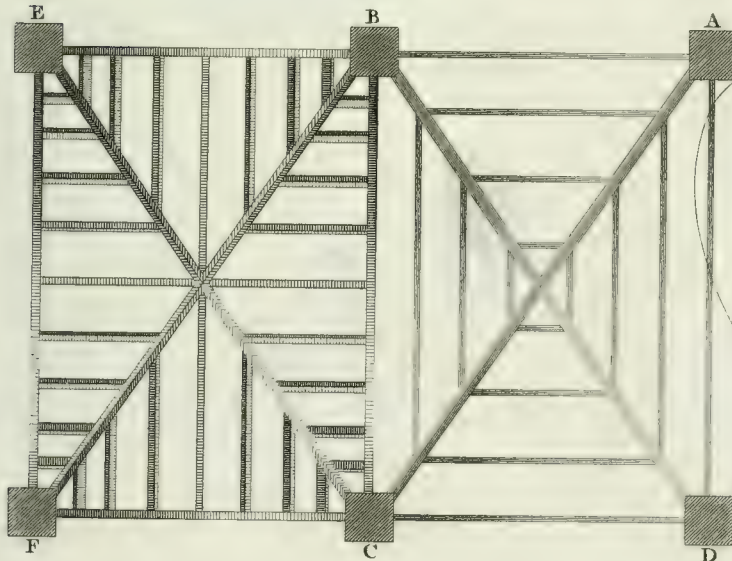
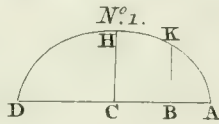
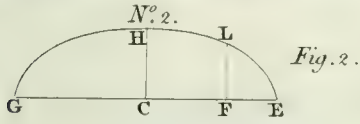
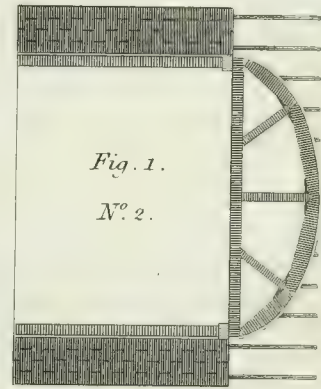
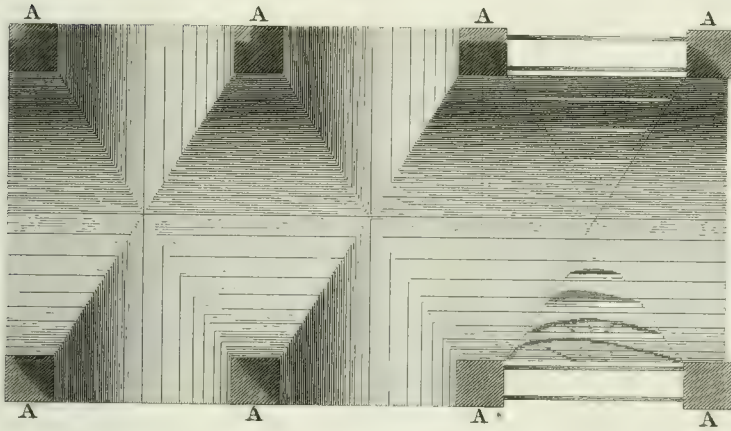


Fig. 1. N° 1.







GROIN.

See Mr. Tappin's article and description of this Fig. under Groin.

Fig. 1.

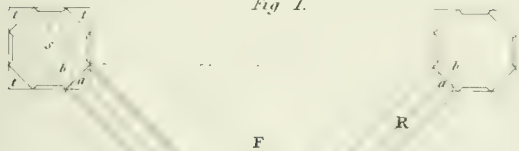


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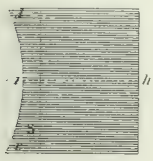
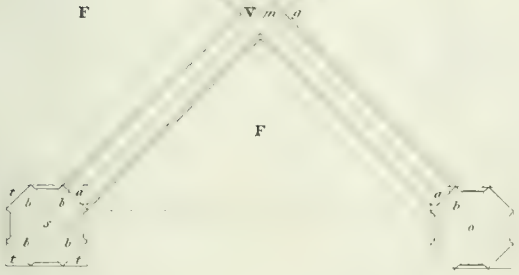


Fig. 5.

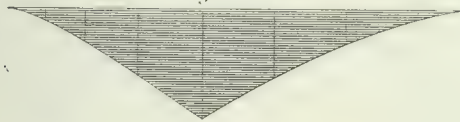


Fig. 4.

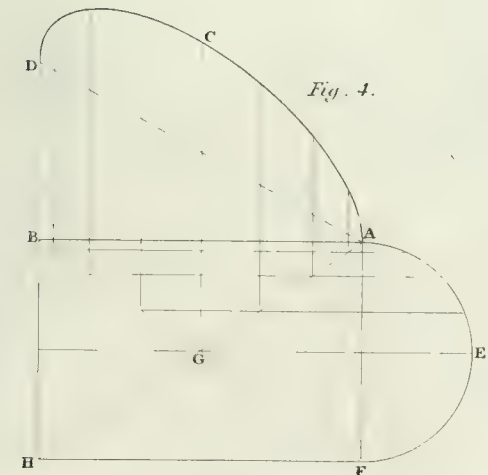


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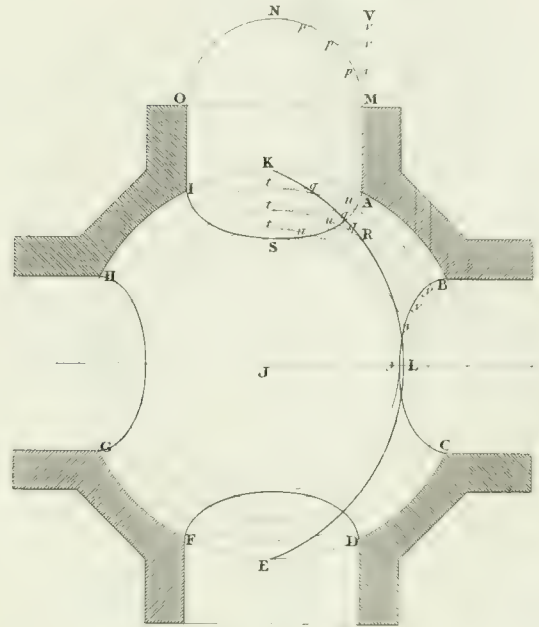
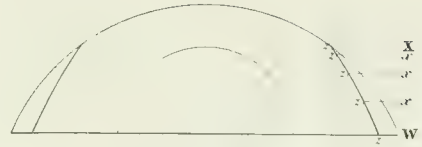
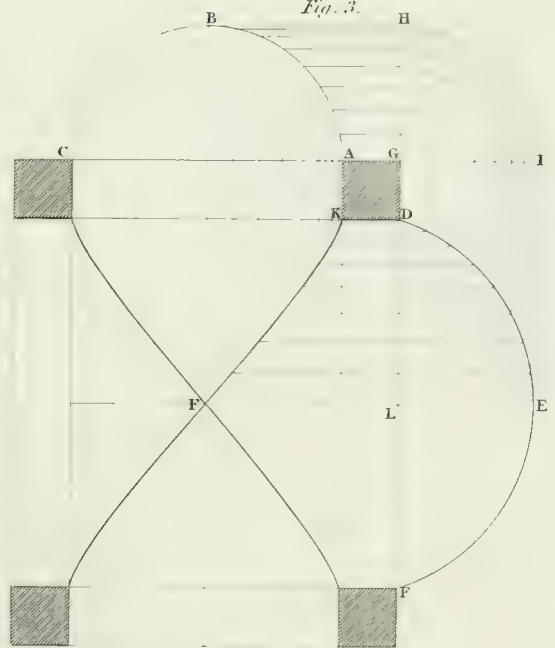
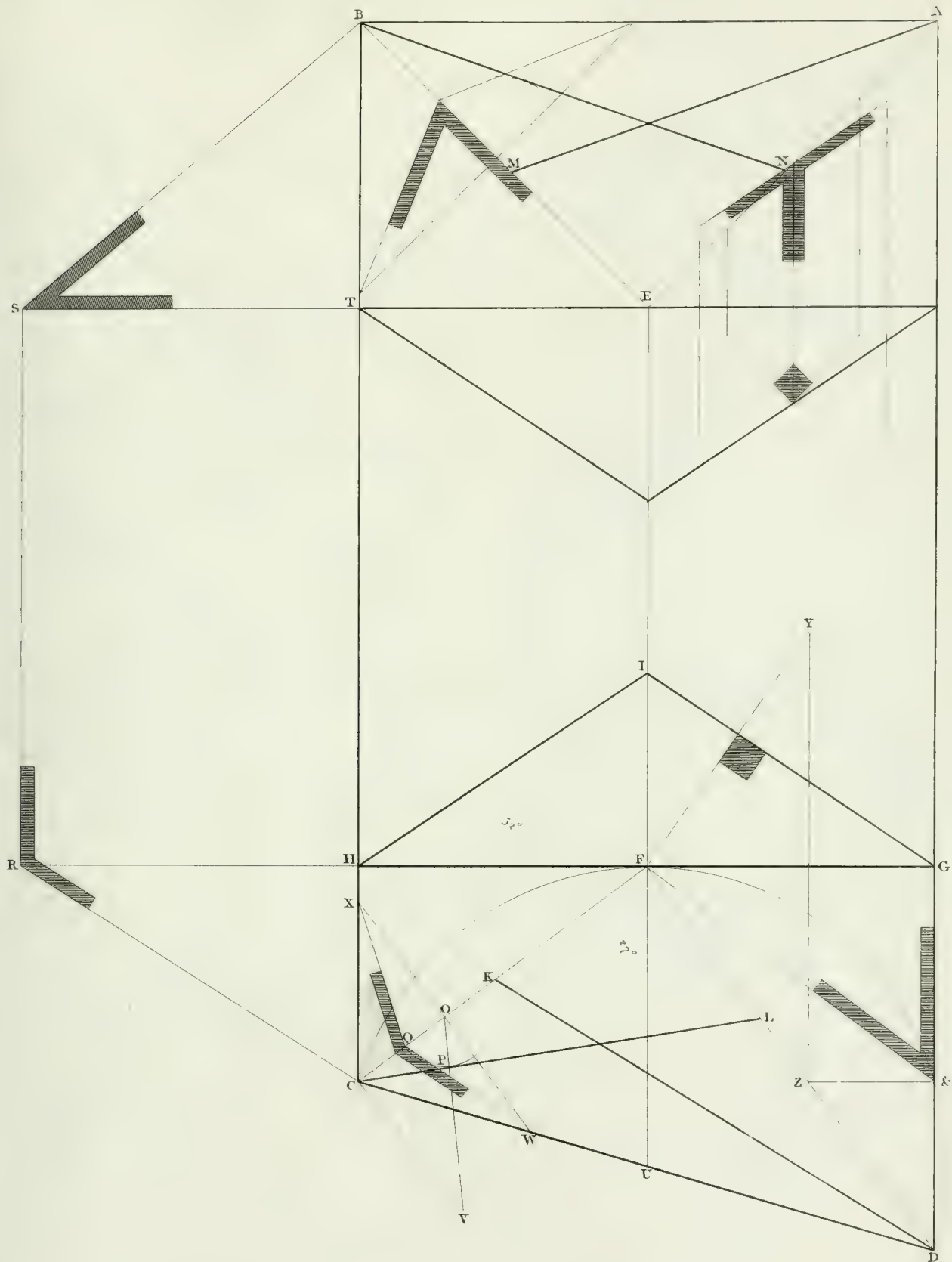


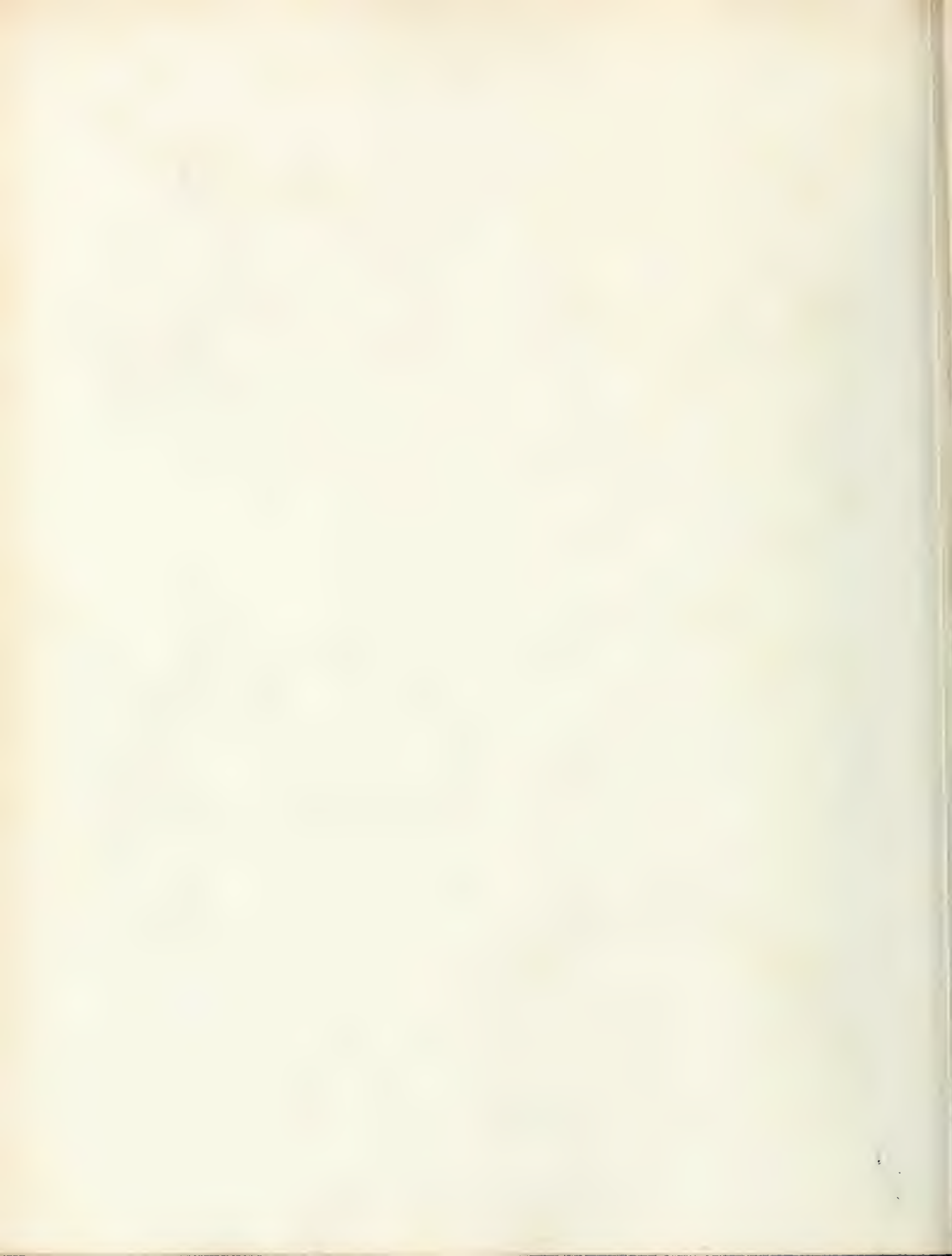
Fig. 3.





GEOMETRICAL PRINCIPLES OF CARPENTRY.



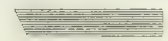
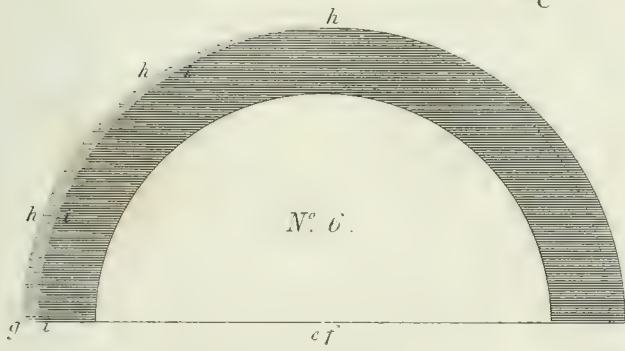
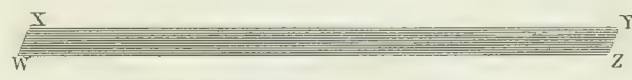
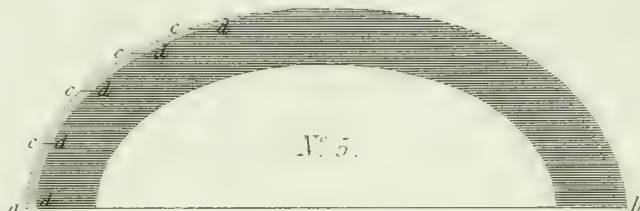
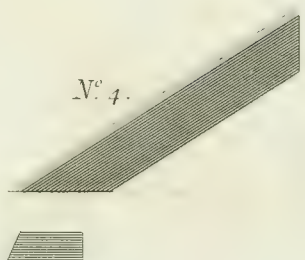
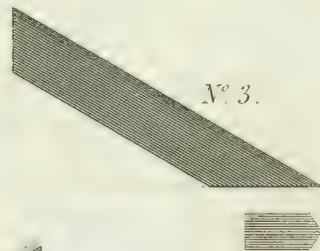
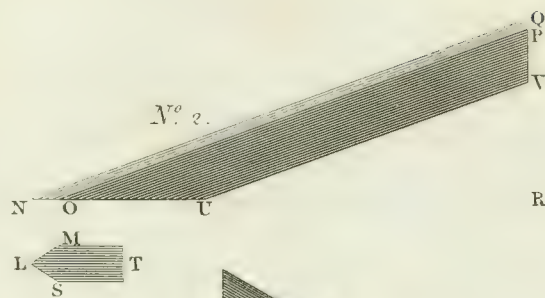
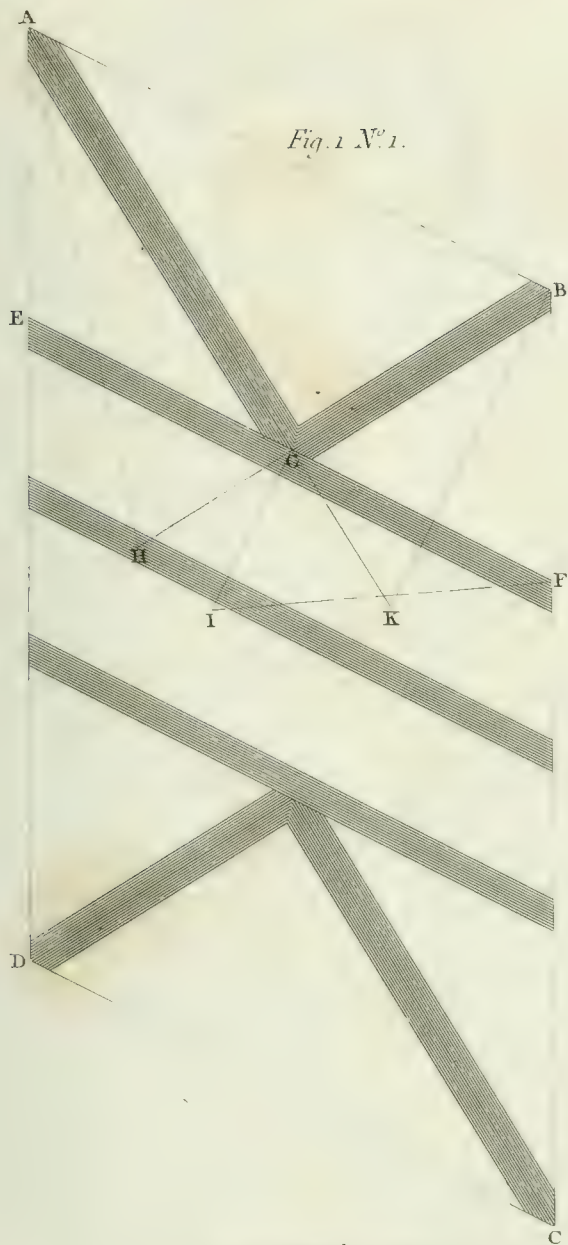




ARCHITECTURE.

GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1 N<sup>o</sup> 1.





GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1.

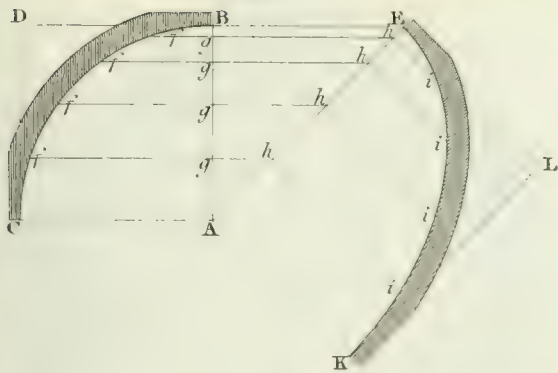


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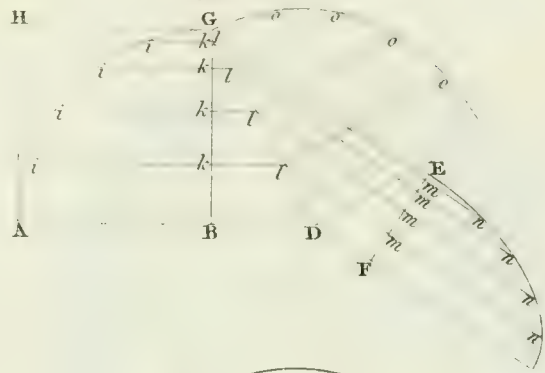


Fig. 3.

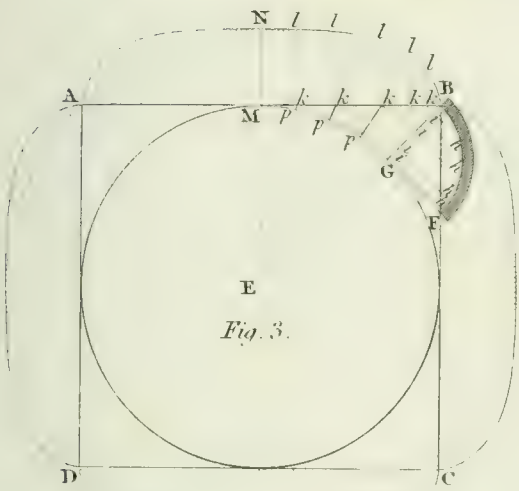


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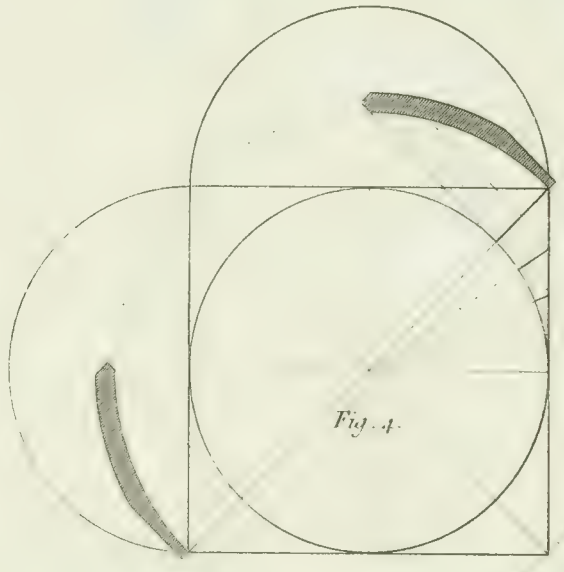


Fig. 5.

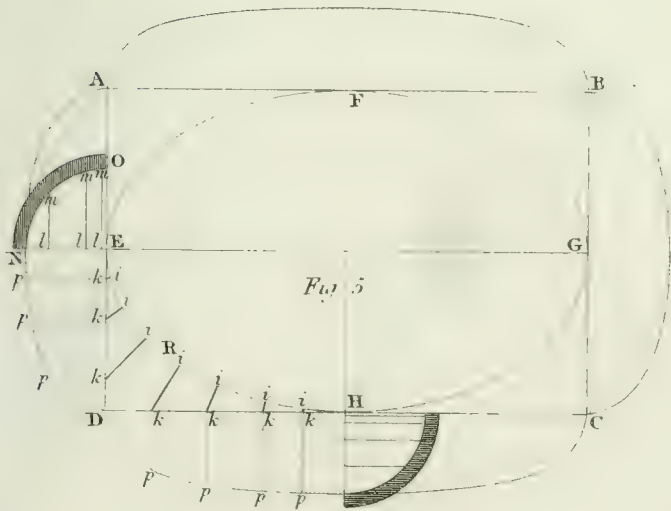
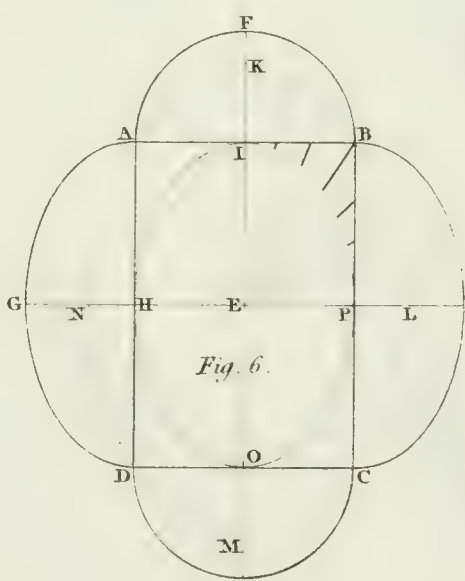


Fig. 6.







GEOMETRICAL PRINCIPLES OF CARPENTRY.

Fig. 1.

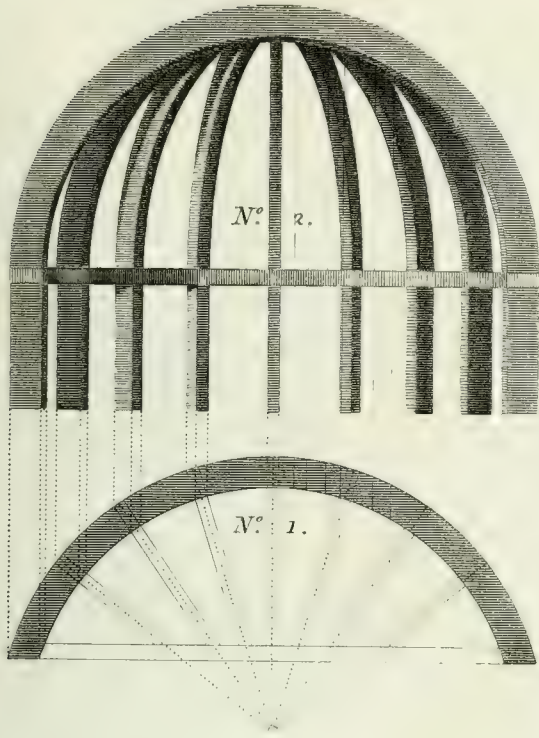
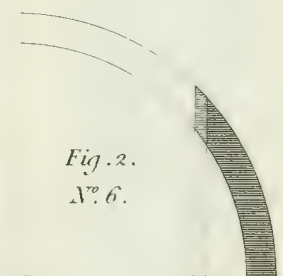
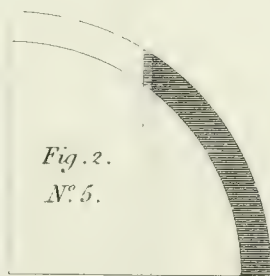
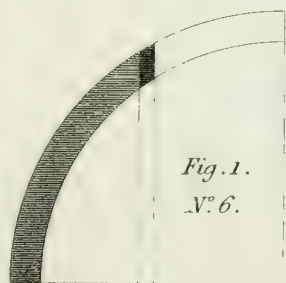
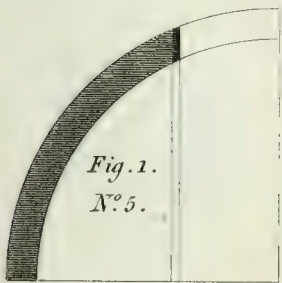
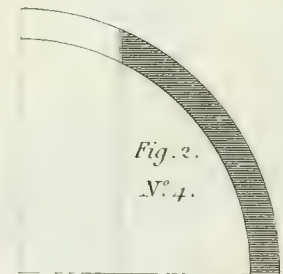
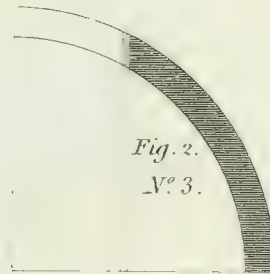
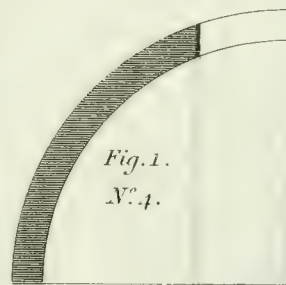
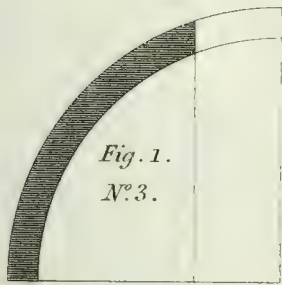
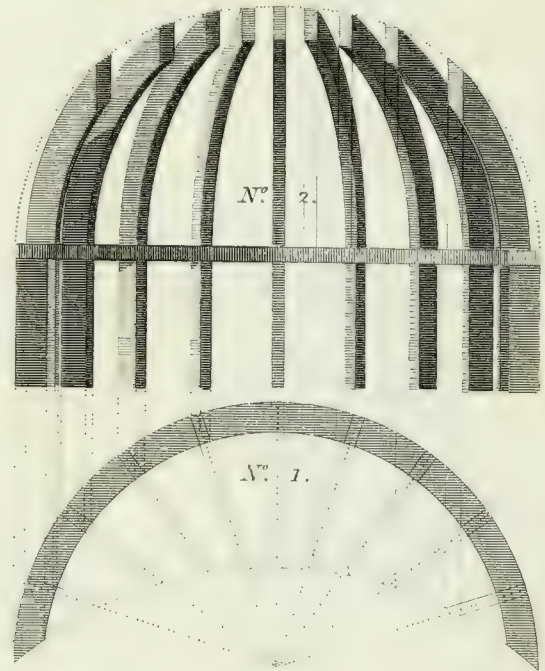
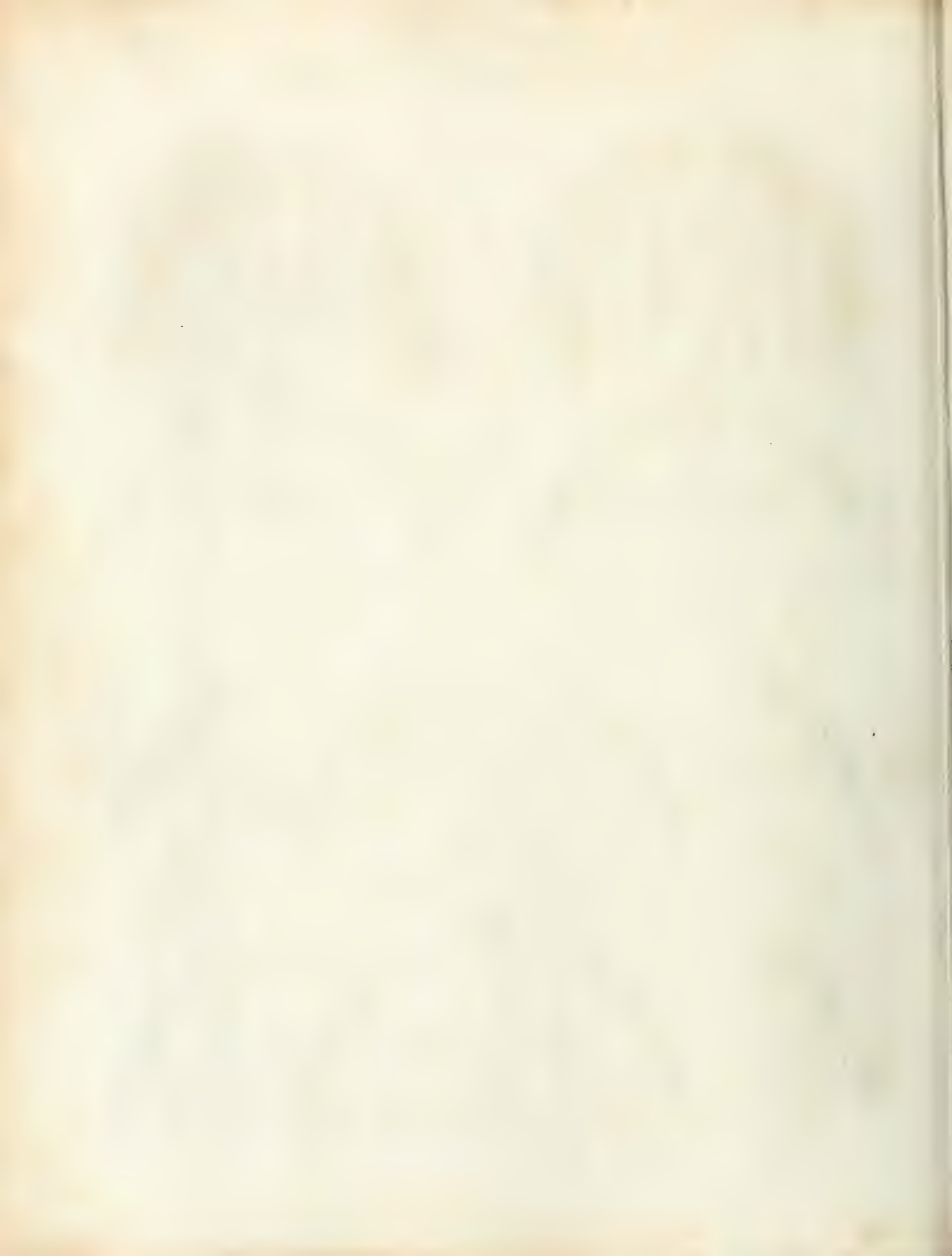
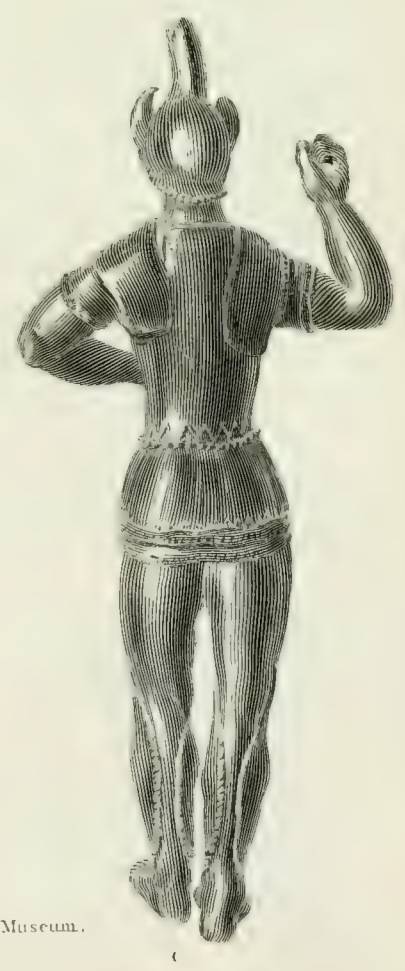
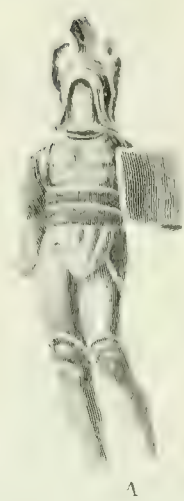


Fig. 2.





ARMOUR.  
*Ancient Bronzes.*



AD. In the Collection of Payne Knight Esq<sup>r</sup> — BB. C.C. In the British Museum.





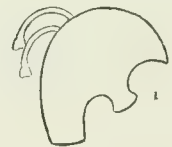
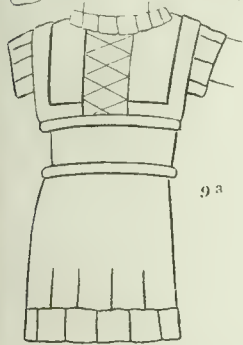
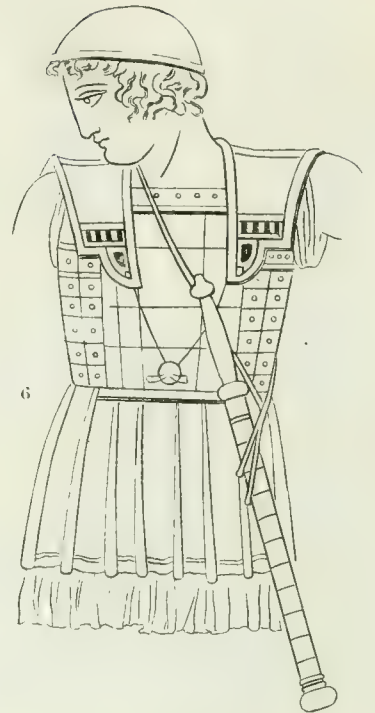
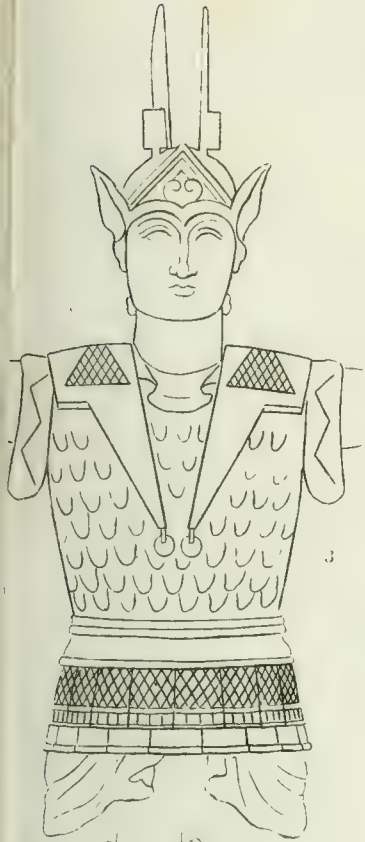
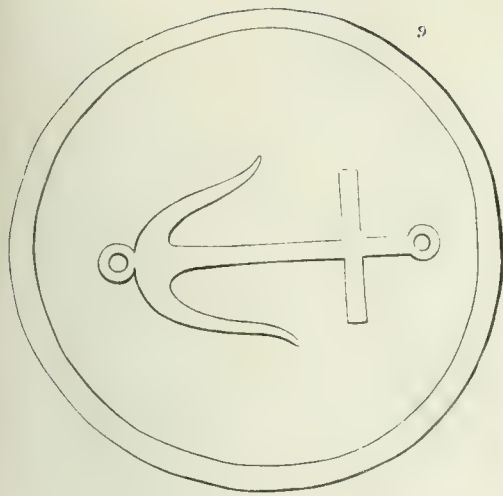


Fig 1 & 2 from Deion.  
 3, 4, 7 & 9 a. from the Tusean Gallery  
 5. from a Gem.  
 6. from S.W. Hamilton's Vases  
 8. A Bronze in the British Museum

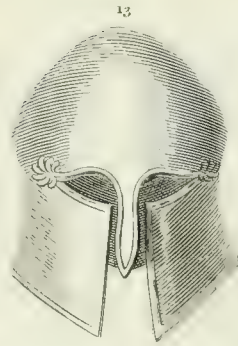
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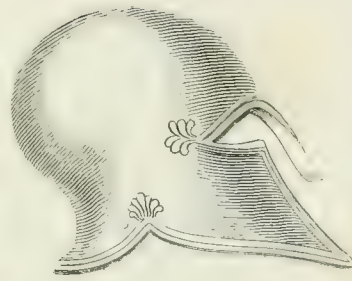




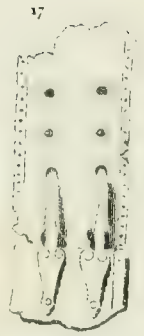
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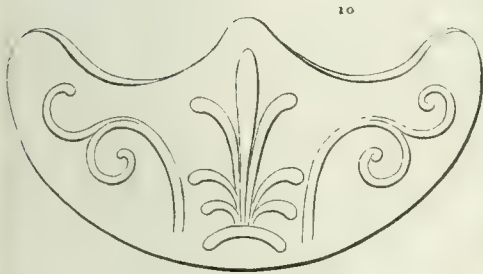
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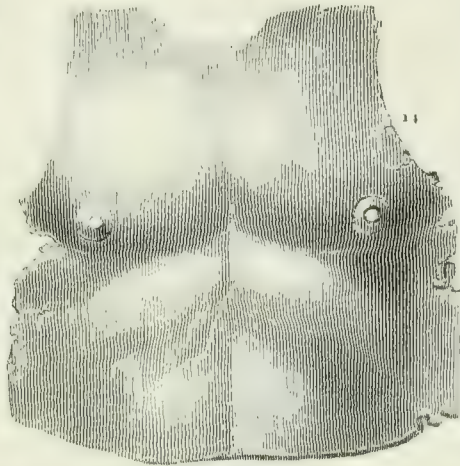
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17



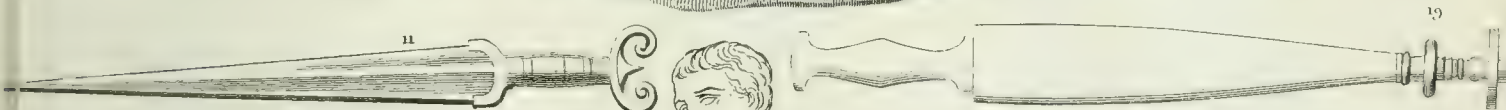
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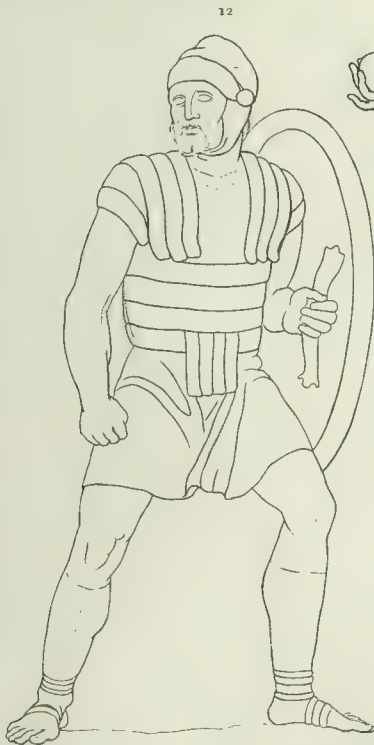
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18



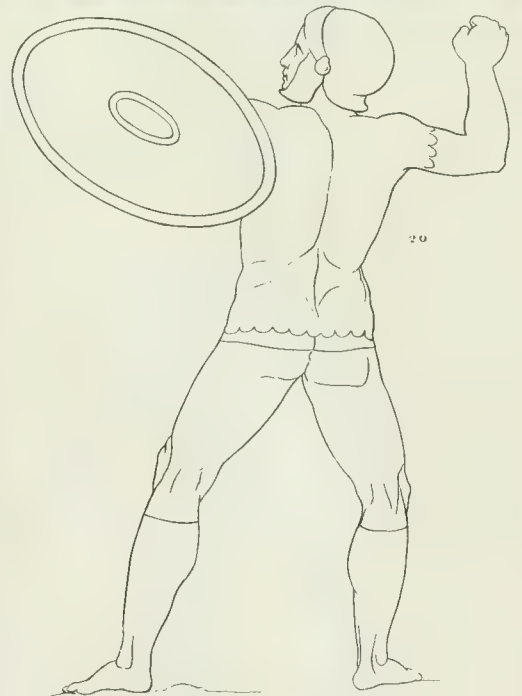
19



12



15



20

Fig. 13, 16, 17, 18, 19 in the British Museum.  
9 & 10 from *Scw Hamilton's Vases*.

Fig. 12, 15 and 20 from Bartoli's *Triumphal Arches*.







Plate V Fig. 4

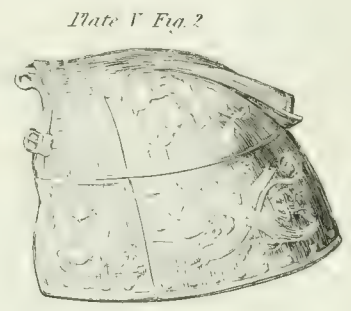


Plate V Fig. 2

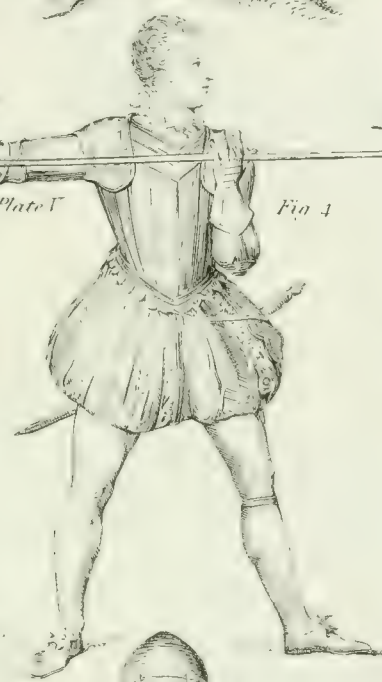


Plate IV Fig. 6

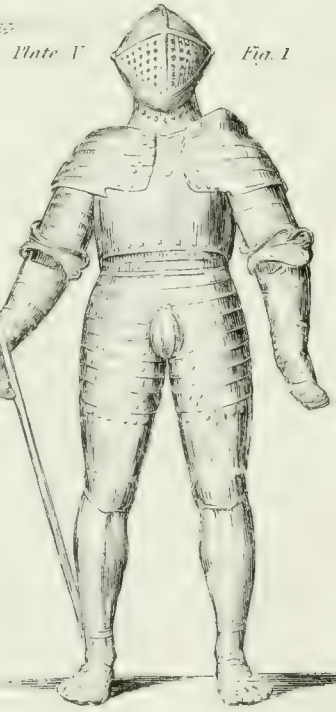


Plate V Fig. 1



Plate V Fig. 3



Blake sc



# ARTILLERY.

PLATE I.&II.

## BATTERING RAM and CATAPULTA.

PLATE I. *ARIES, or Battering Ram.*

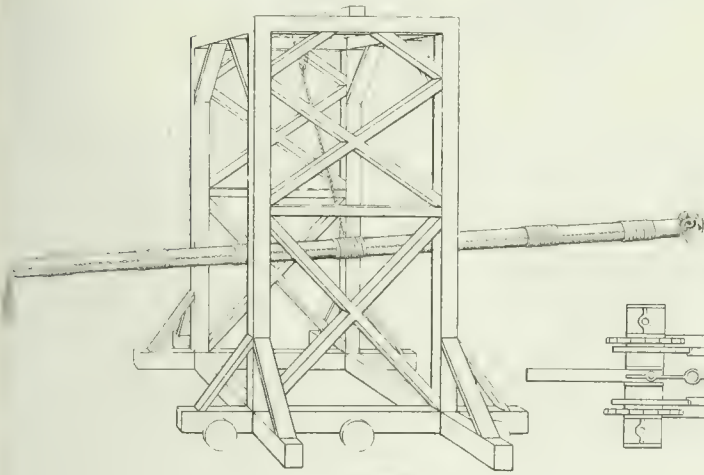


PLATE II. *CATAPULTA, used by Lord Heathfield, at the Siege of Gibraltar.*

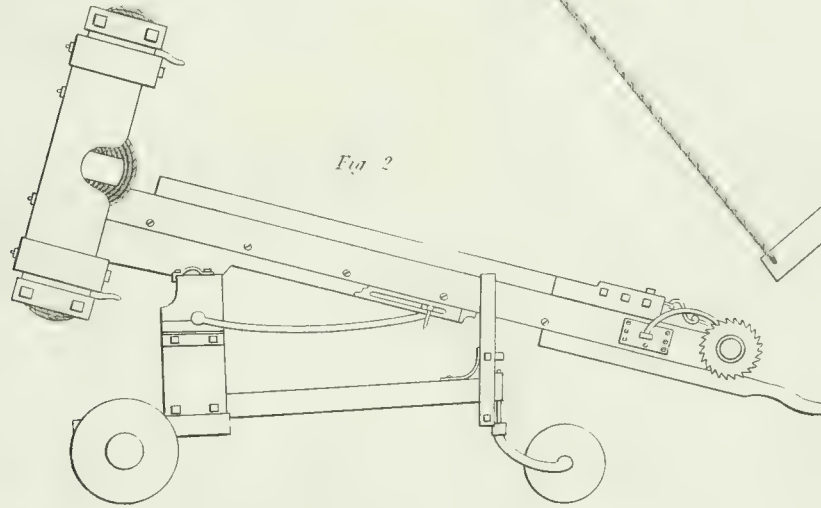
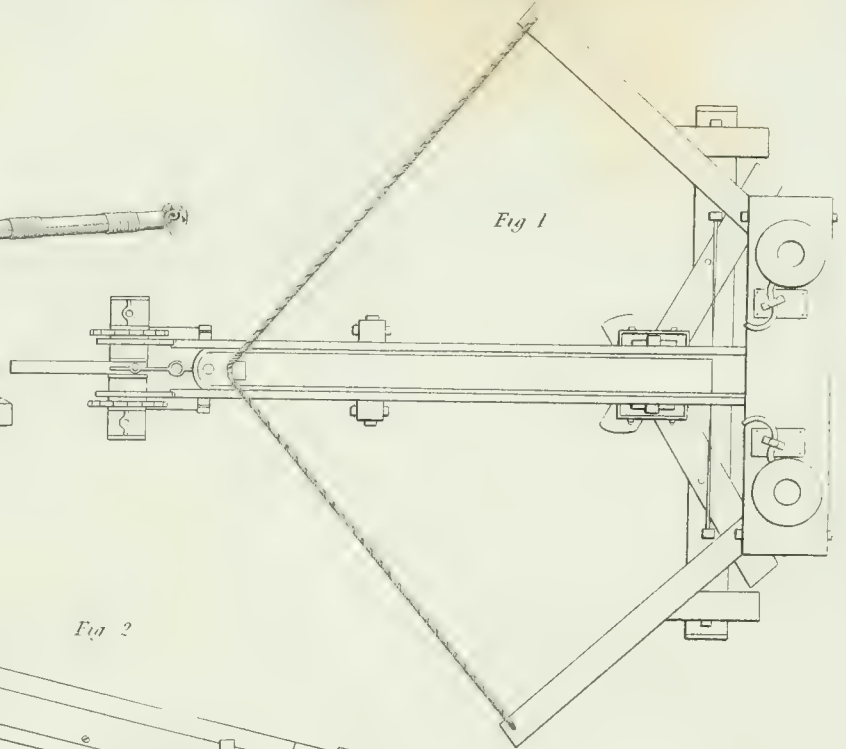


Fig 3

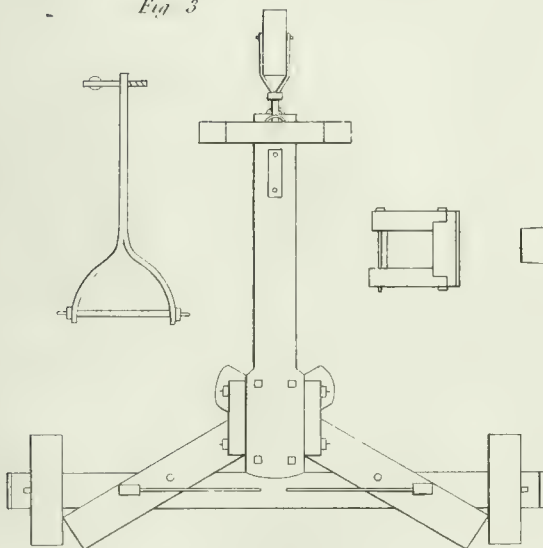


Fig 4

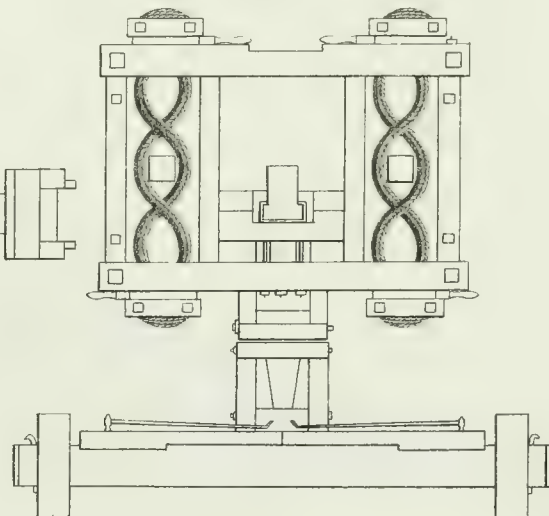






Fig. 2.

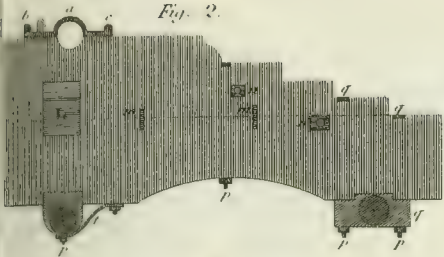


Fig. 1.

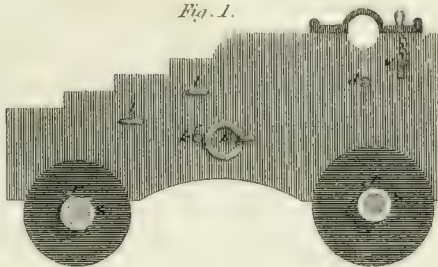


Fig. 4.

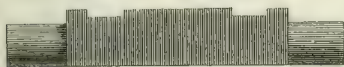


Fig. 5.

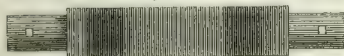


Fig. 6.



Fig. 7.



Fig. 10.

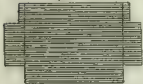


Fig. 8.

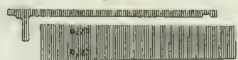


Fig. 9.

Fig. 3.

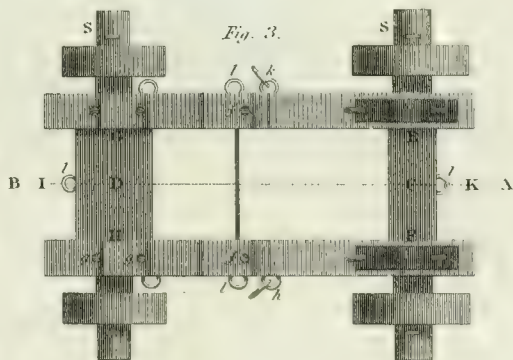


Fig. 11.

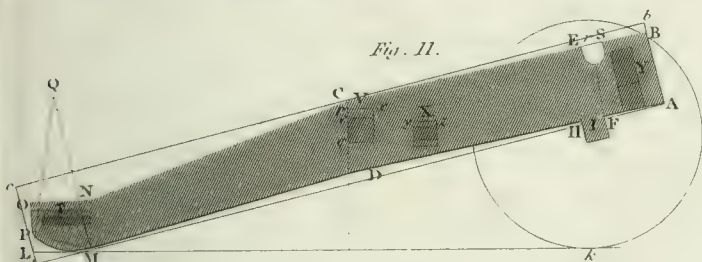


Fig. 12.

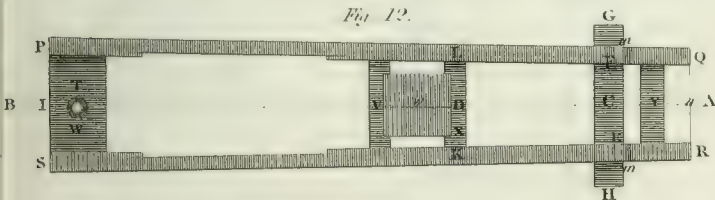
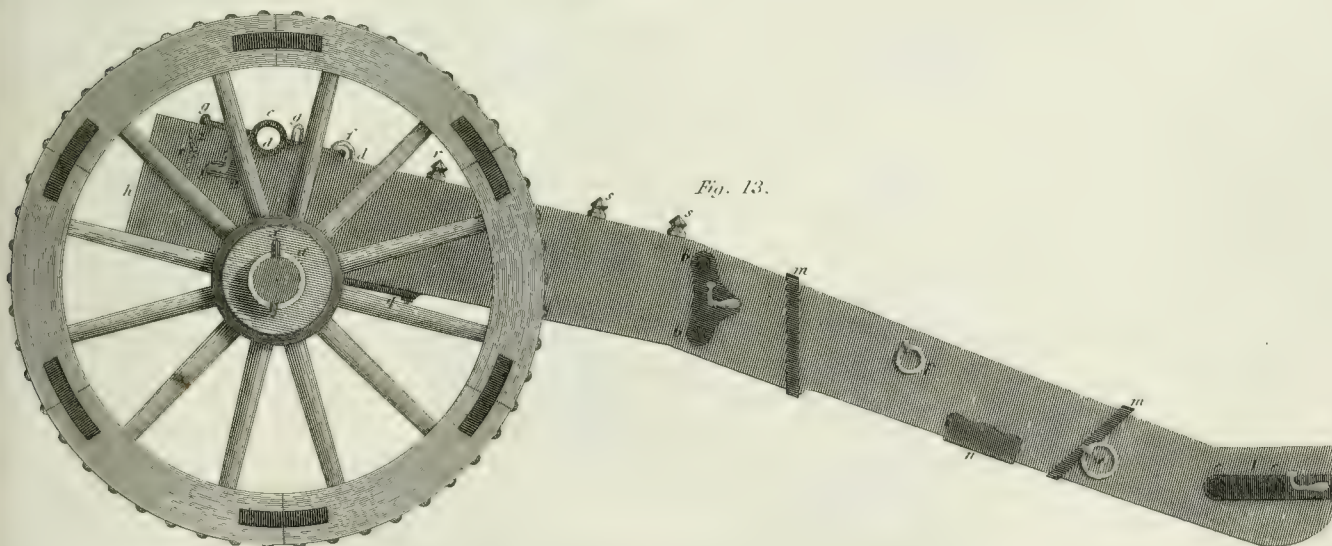


Fig. 13.





CARRIAGE.

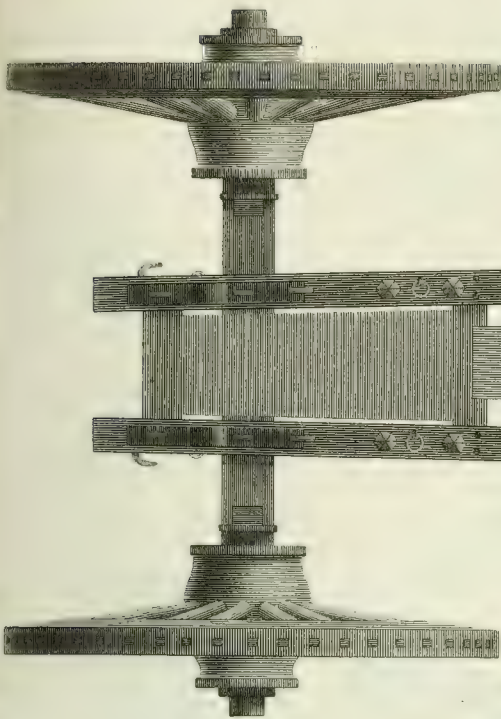


Fig. 14.

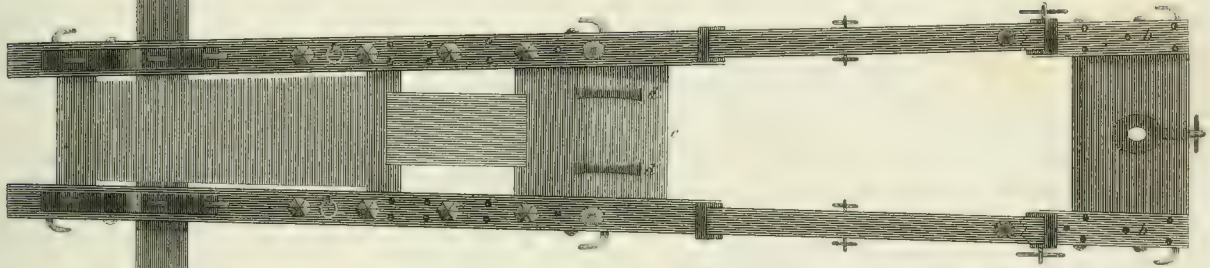


Fig. 17.

Fig. 15.

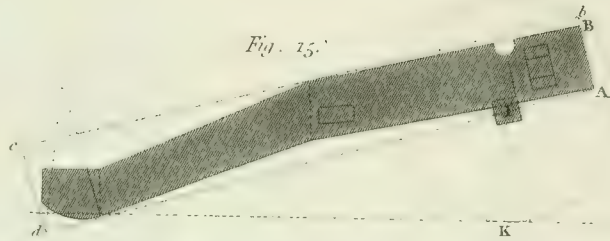
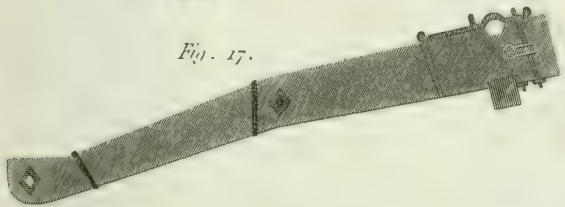


Fig. 18.

Fig. 16.

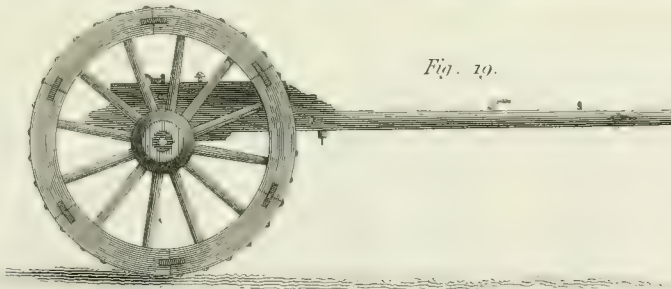
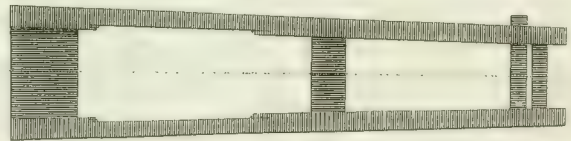
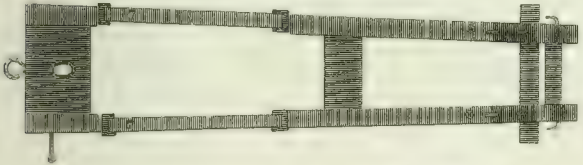


Fig. 19.

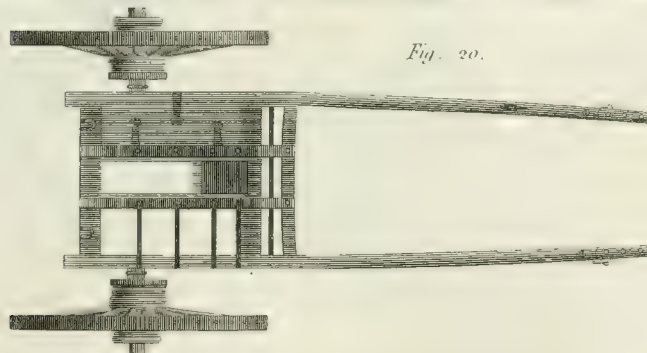


Fig. 20.





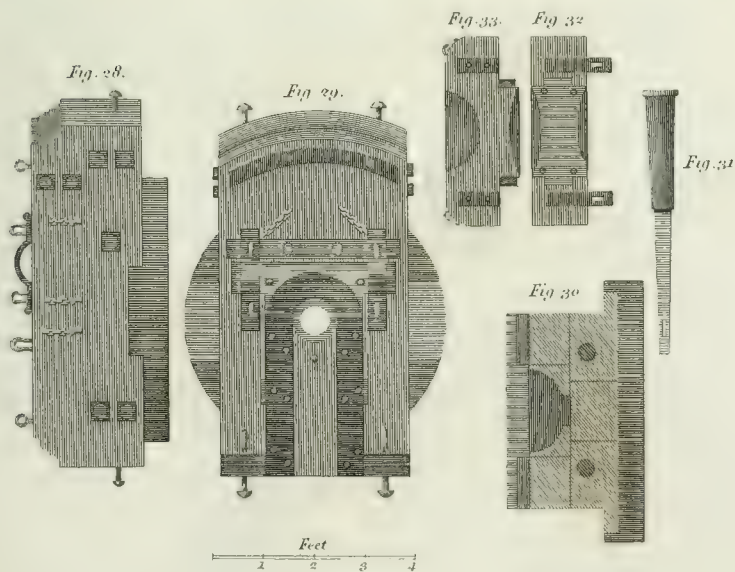
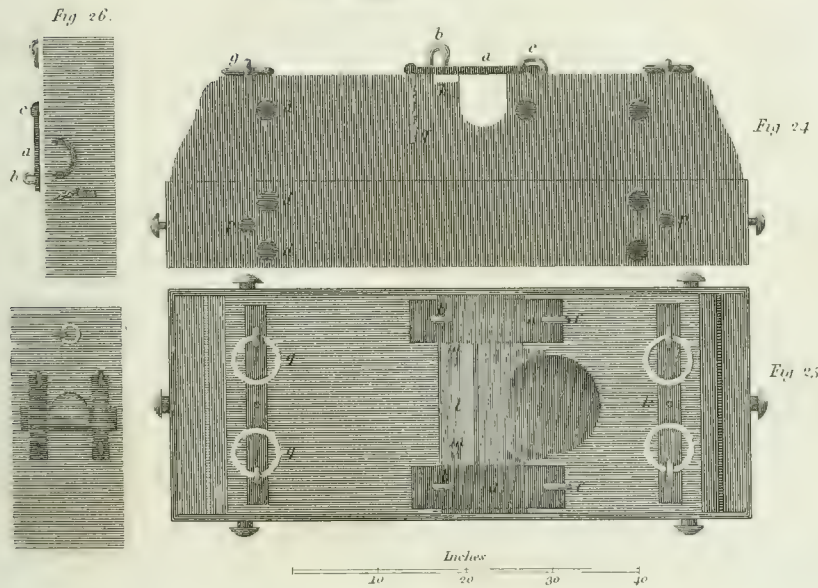
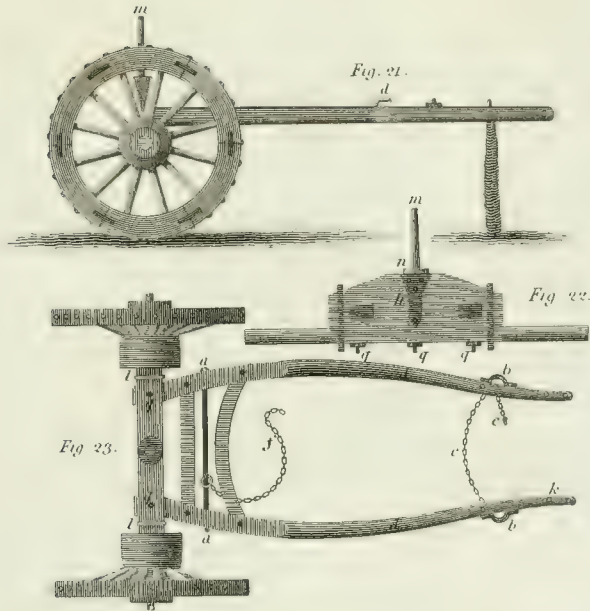




Fig. 31.

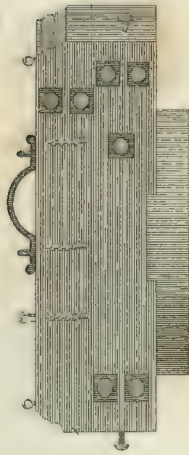


Fig. 35.

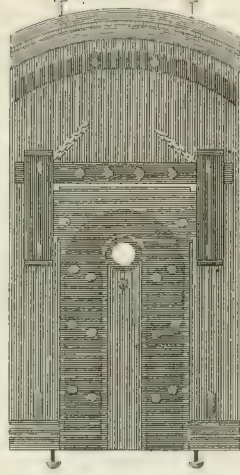


Fig. 38.

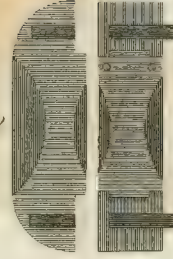


Fig. 39.

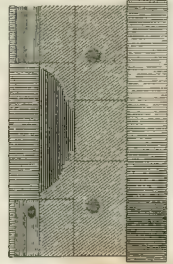


Fig. 37.

Fig. 36.

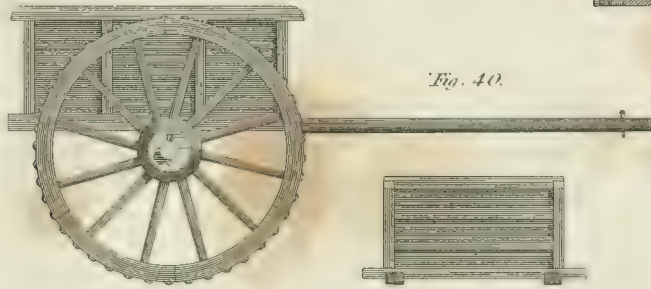


Fig. 40.

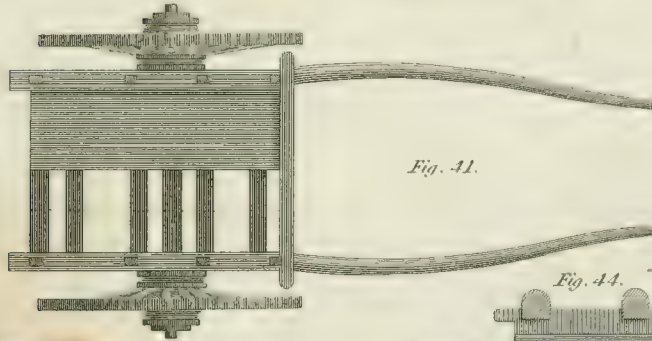


Fig. 41.

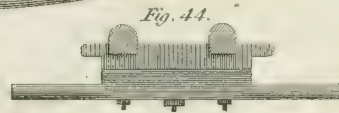


Fig. 44.

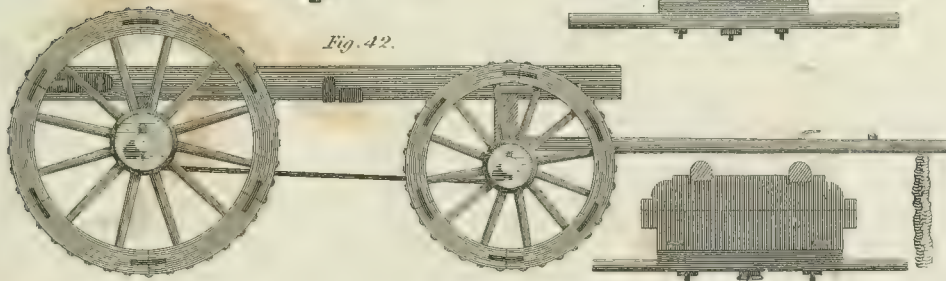


Fig. 42.

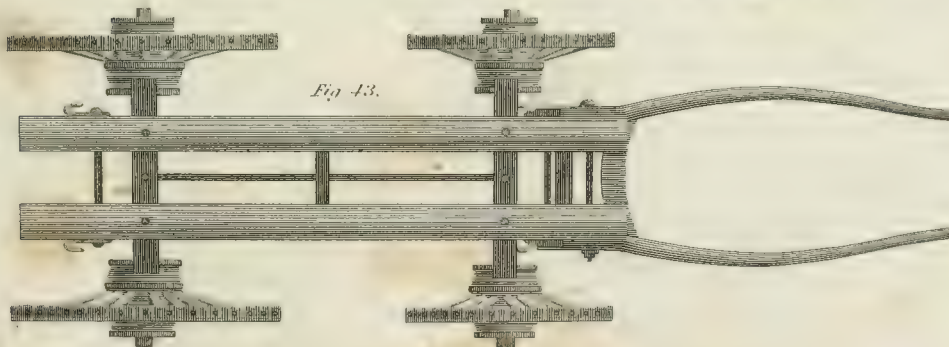


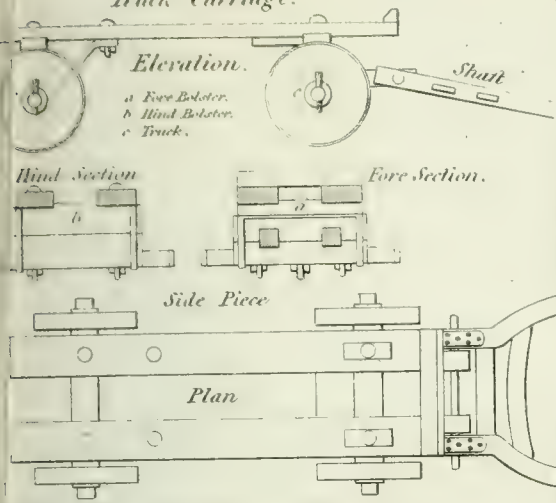
Fig. 43.





Truck Carriage.

Fig. 45 to 48.



Ammunition Waggon.

Fig. 49 to 52.

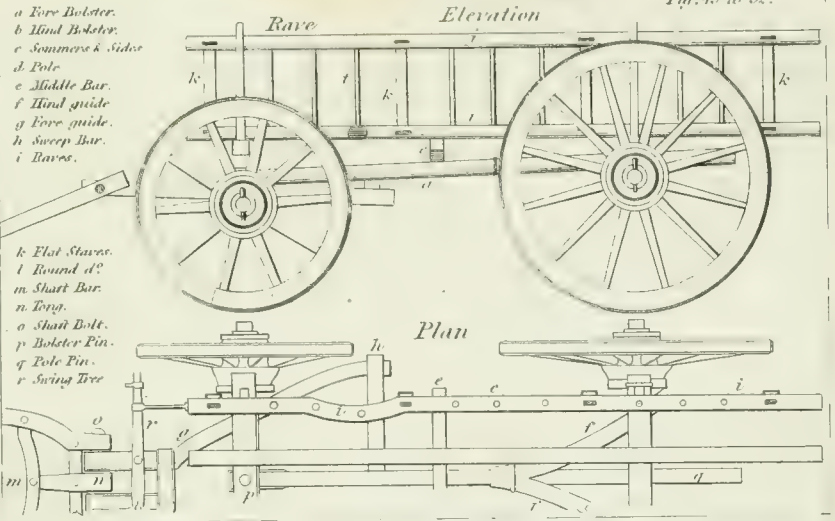
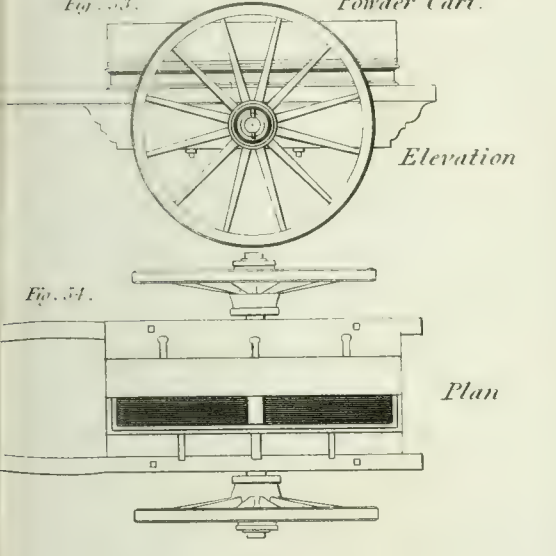


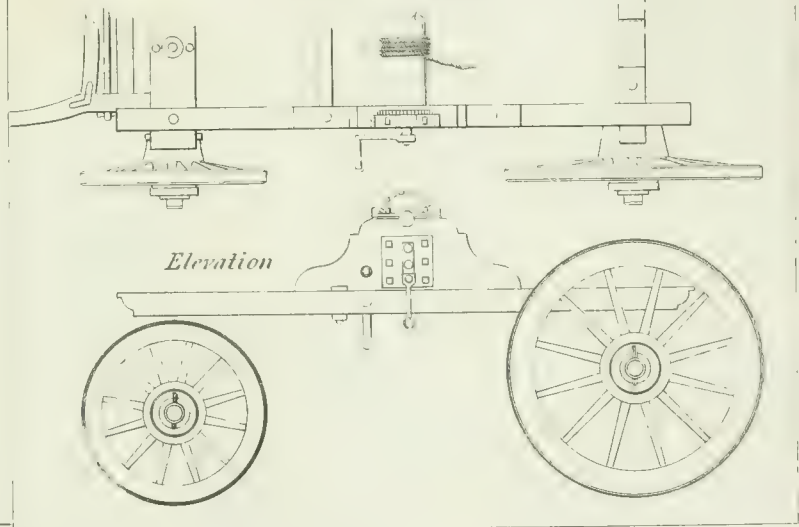
Fig. 53.

Powder Cart.



Plan of Sling Waggon.

Fig. 55 to 58.



Elevation of Sling Cart.

Fig. 59.

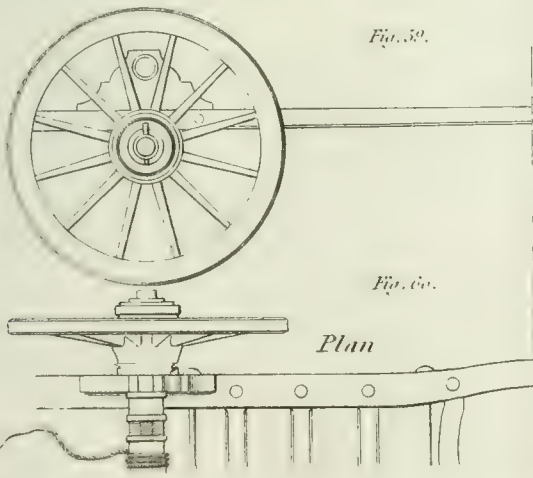
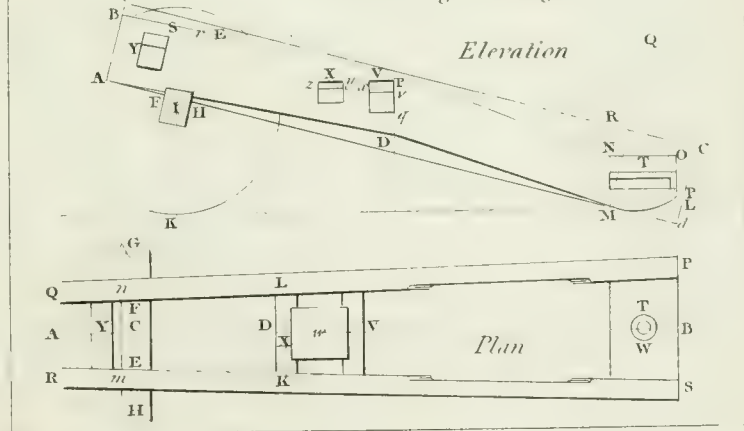
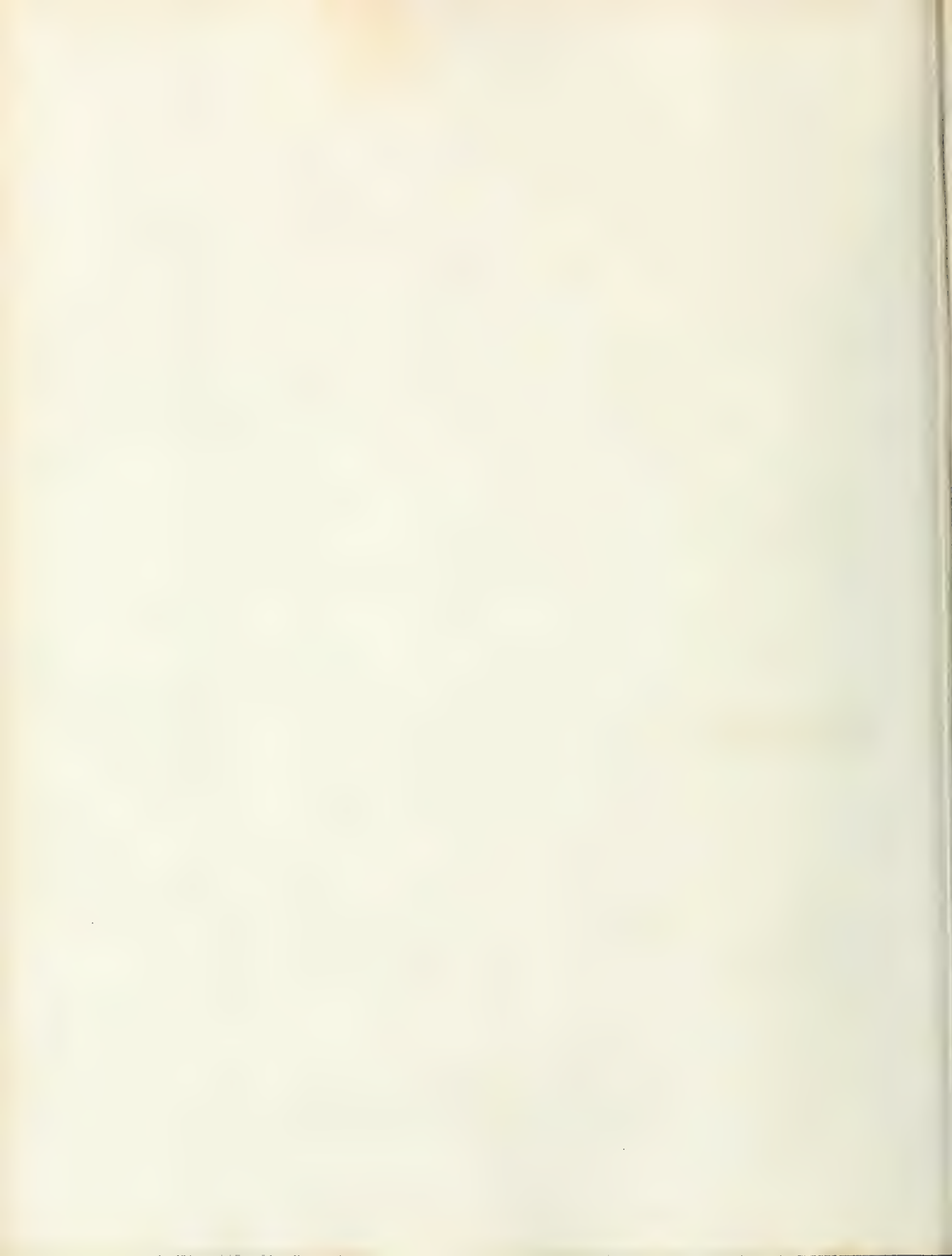


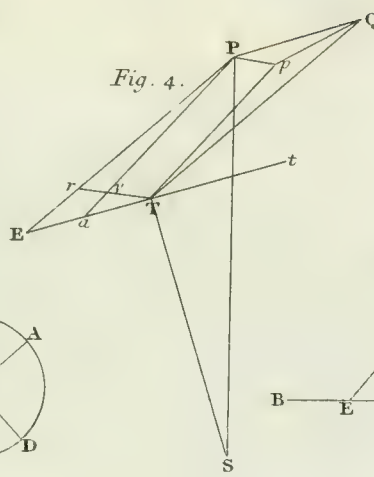
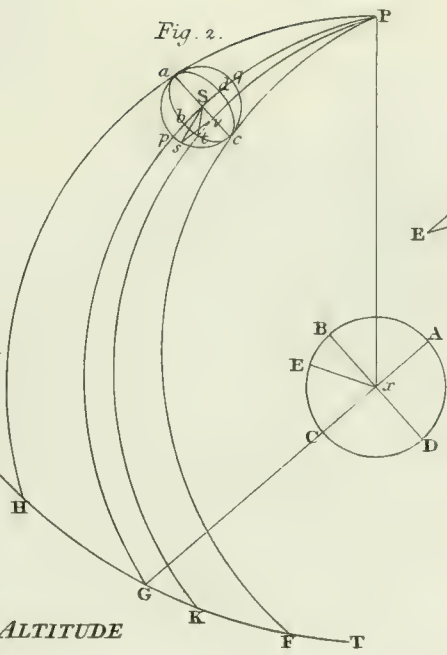
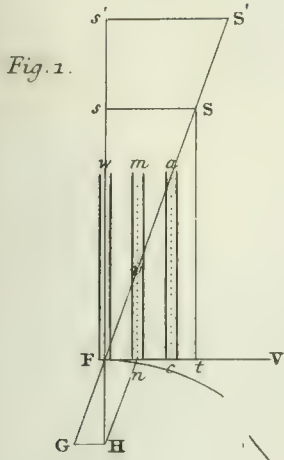
Fig. 61.

Travelling Carriage.

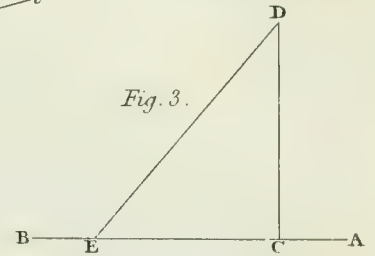




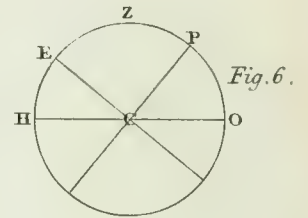
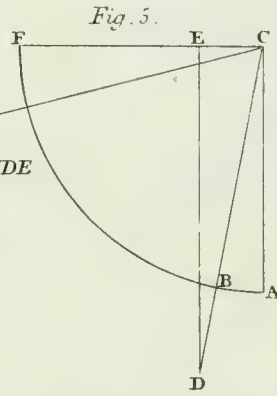
ABERRATION



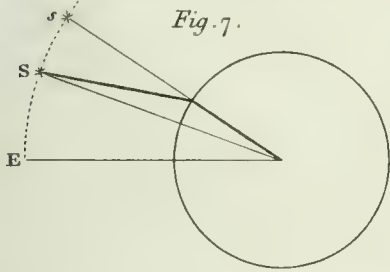
CULMINATION



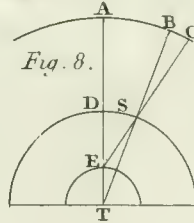
ALTITUDE



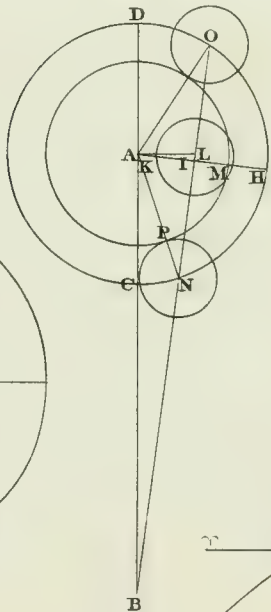
REFRACTION OF ALTITUDE



PARALLAX OF ALTITUDE



ARC  
Fig. 11.\*



ANOMALY

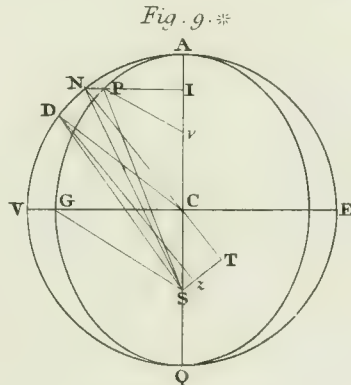
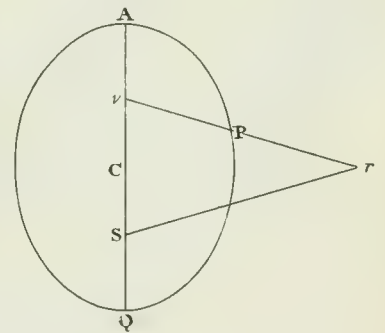
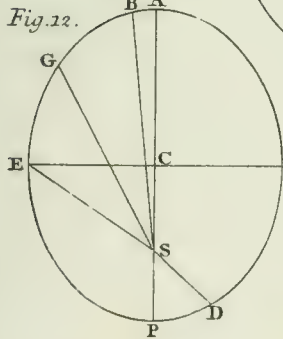


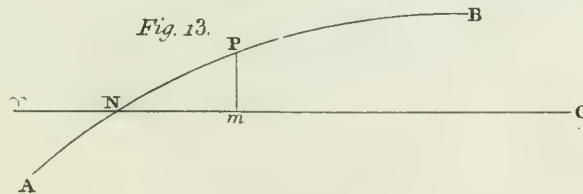
Fig. 10.\*

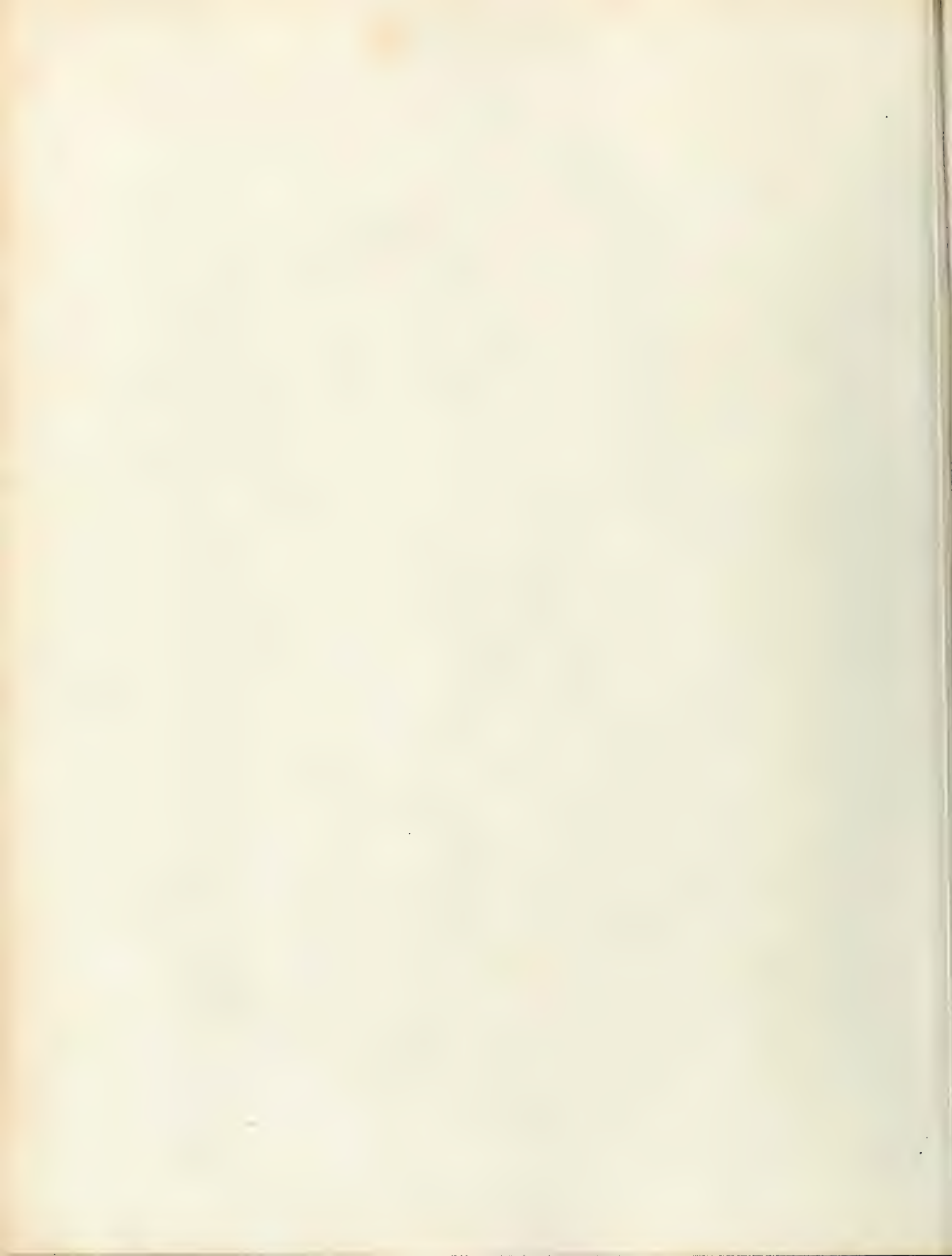


AREA



ARGUMENT





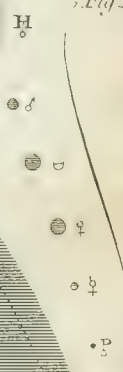


ASTRONOMY.

GENERAL VIEW OF THE SOLAR SYSTEM.  
Fig. 9.



Fig. 10.



Proportional apparent magnitudes of  
the Sun as seen from the Primary Planets  
A Mercury. B Venus. C the Earth. D Mars.  
E Ceres. F Jupiter. G Saturn. H Planet Herschel,  
or Georgium Sidus.

Proportional magnitudes of the Primary  
Planets compared with each other and with  
the Sun represented by the orbit of Saturn  
in Fig. 9. h Saturn. z Jupiter. H Herschel.  
δ Mars. ⊕ the Earth. ♀ Venus. ♁ Mercury.  
♃ Ceres or Piazzi.



ASCENSION, &c

Fig. 15.

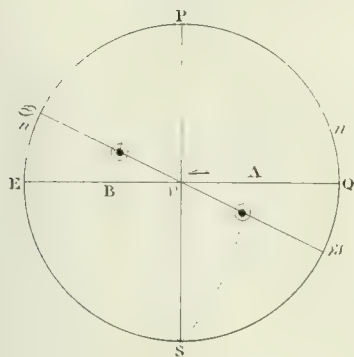


Fig. 16.

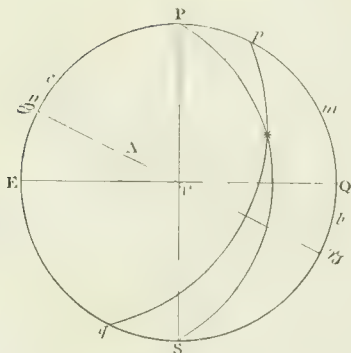
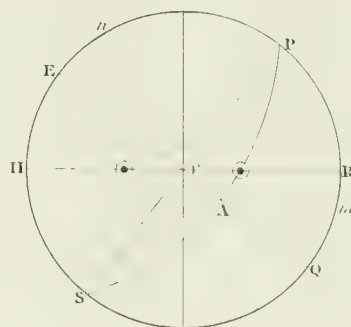
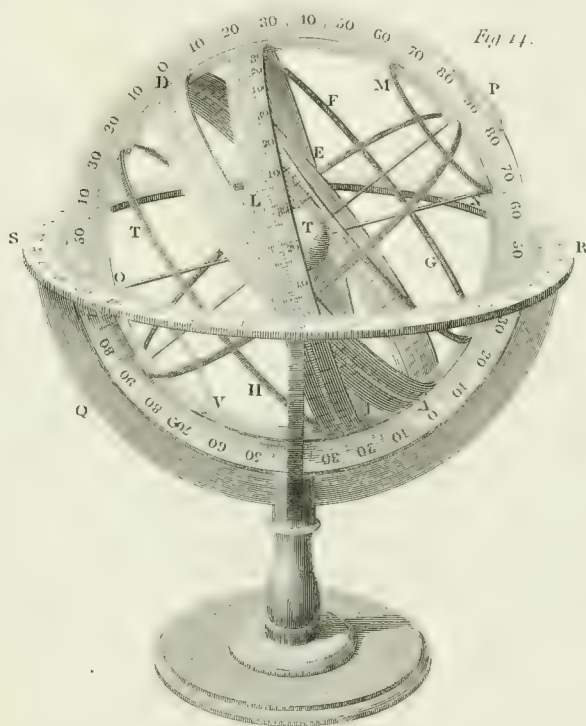


Fig. 17.



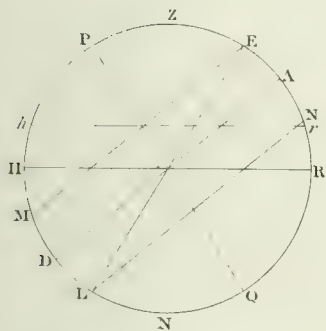
Armillary Sphere.

Fig. 14.



AXIS.

Fig. 18.

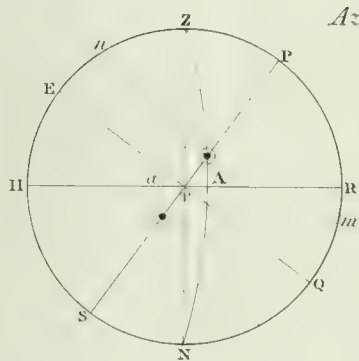


AXIS.

Fig. 19.

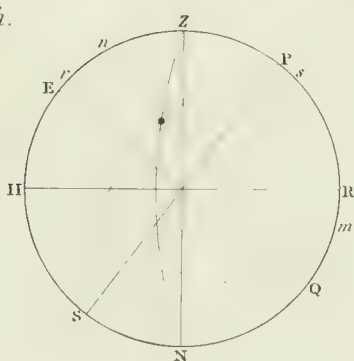


Fig. 20.



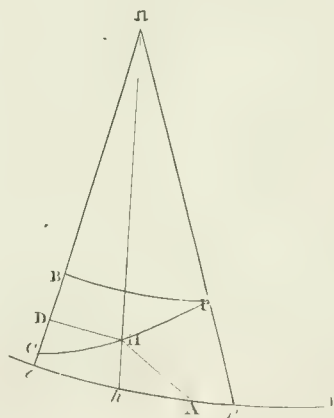
Azimuth.

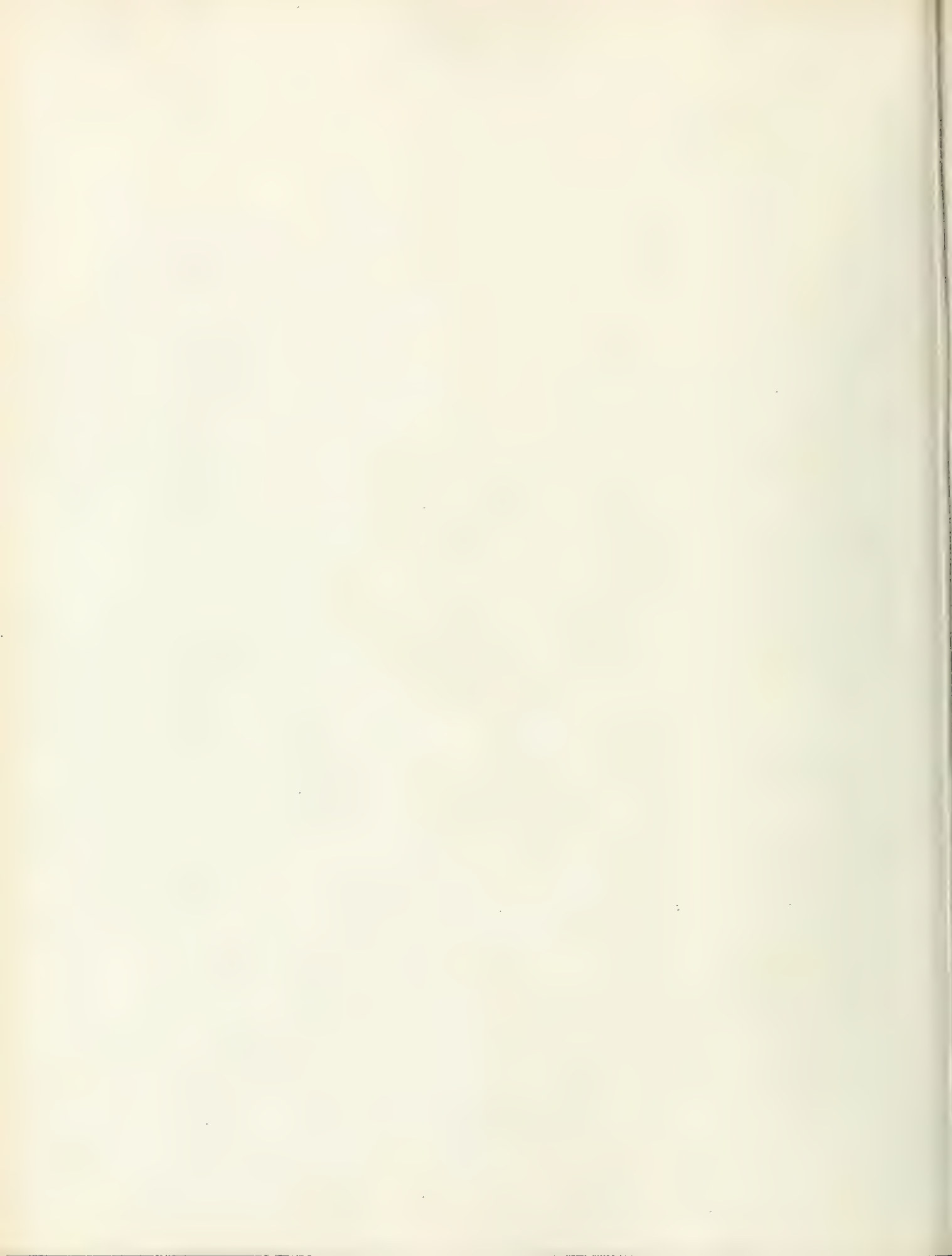
Fig. 21.



Chronology.

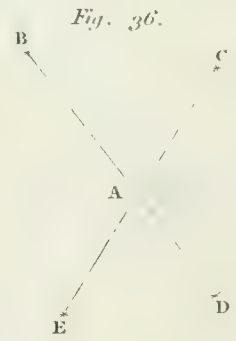
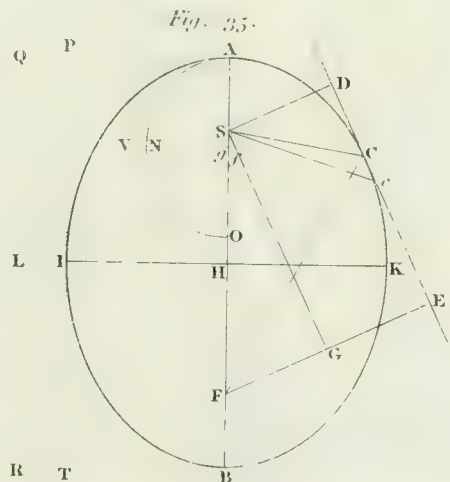
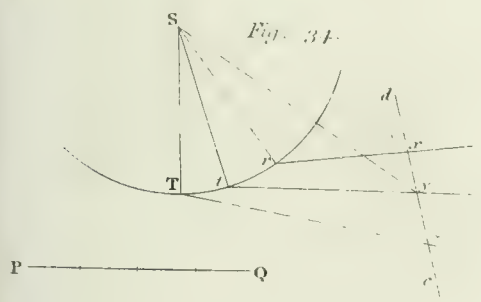
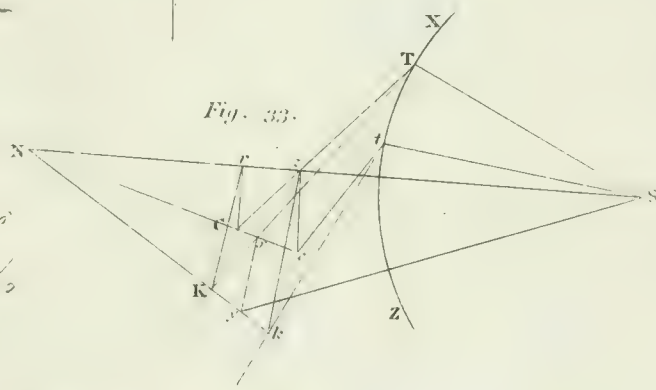
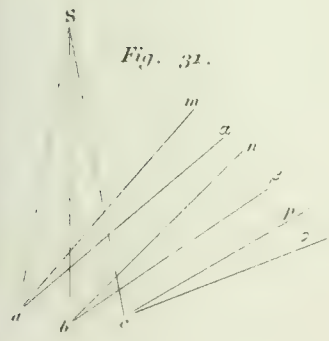
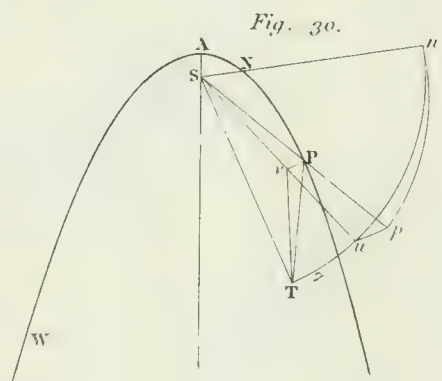
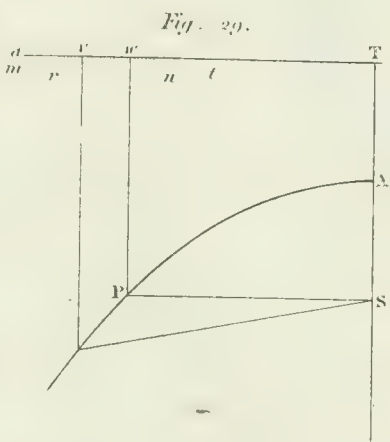
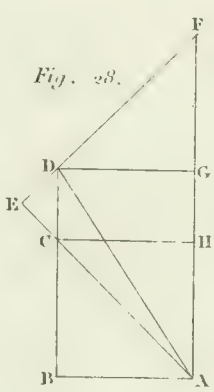
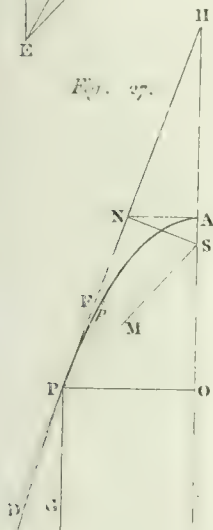
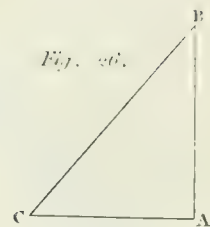
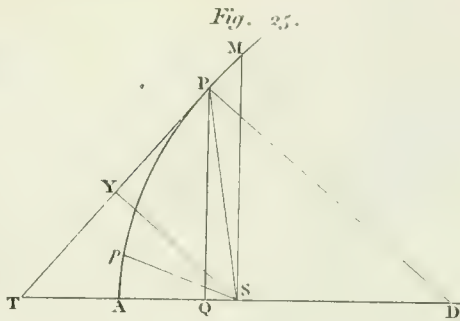
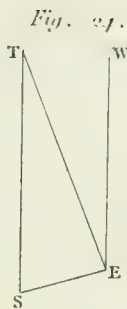
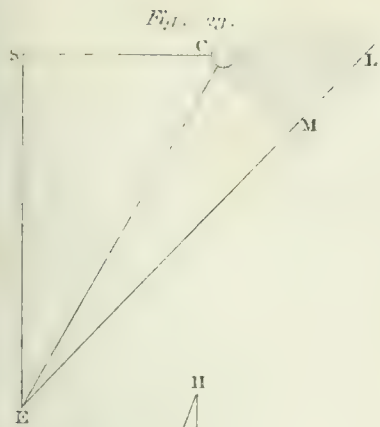
Fig. 22.

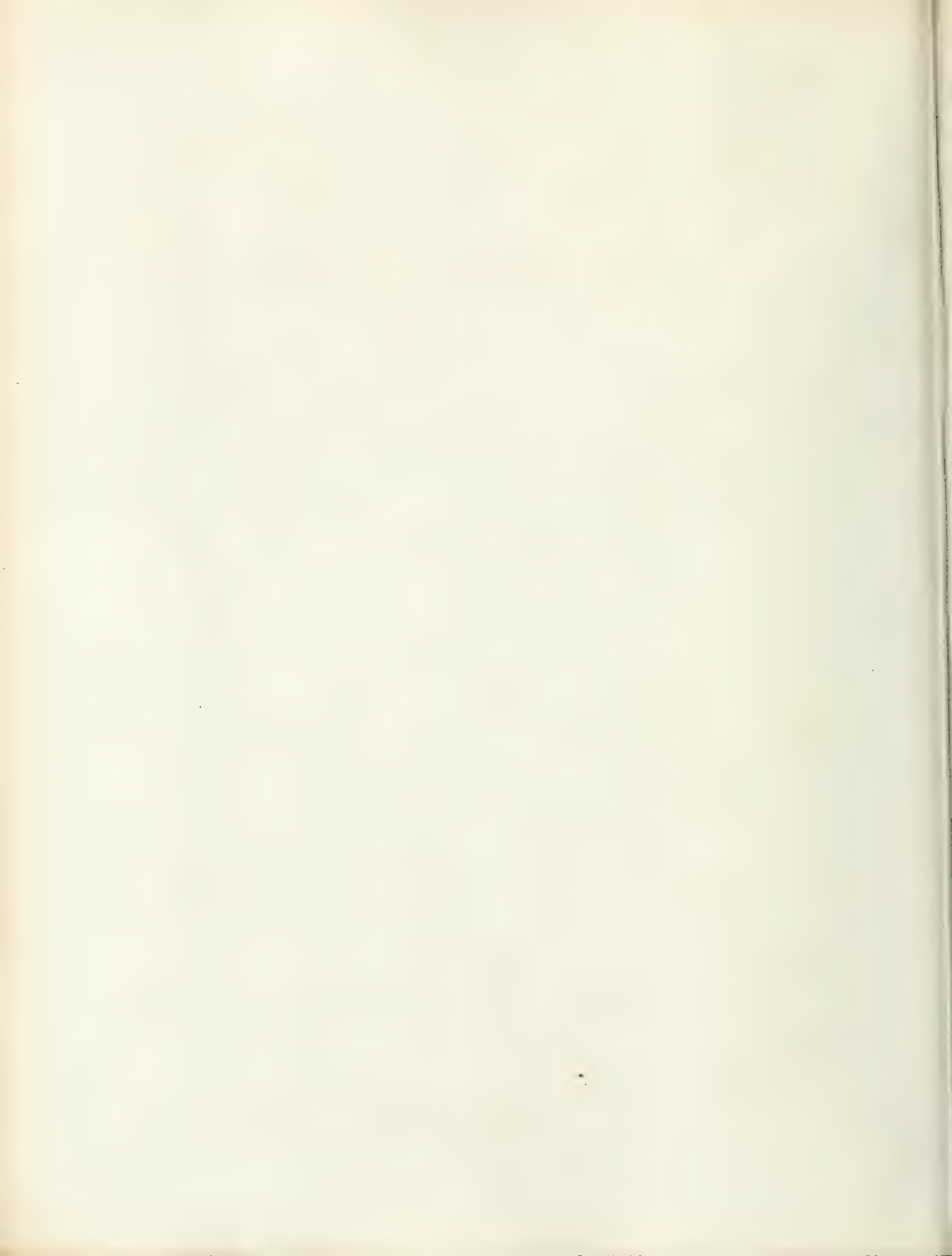






COMET





COMMUTATION

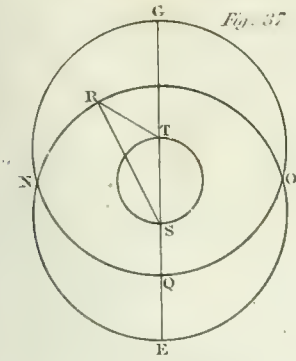
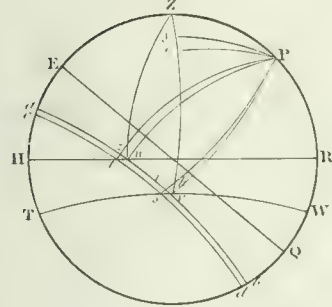


Fig. 10.



CREPUSCULUM

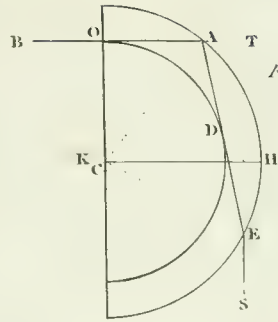


Fig. 38.

Fig. 11.

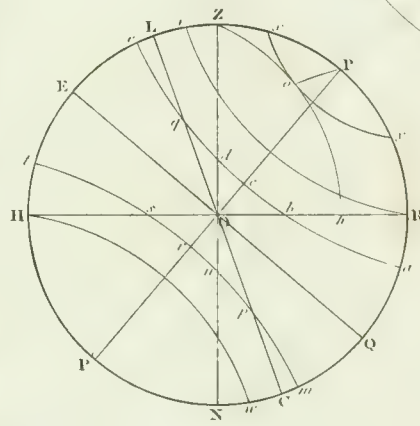
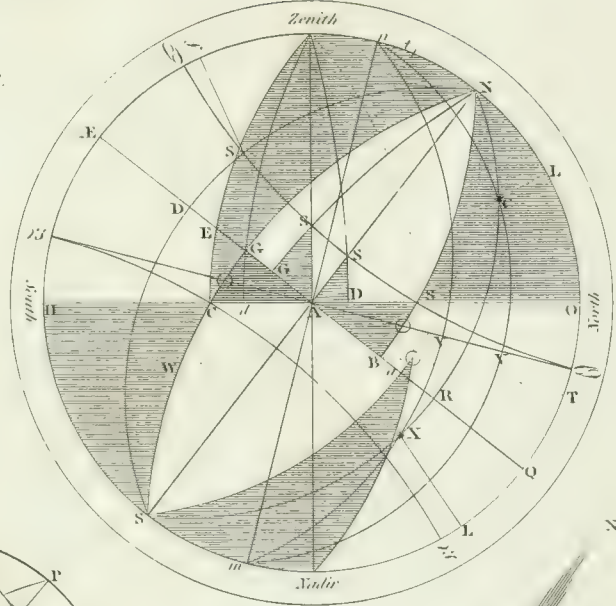
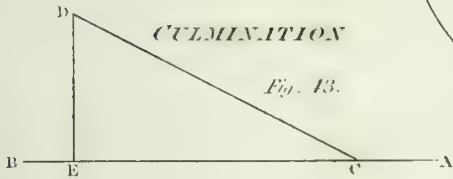


Fig. 39.



CULMINATION

Fig. 13.



DECLINATION

Fig. 44.

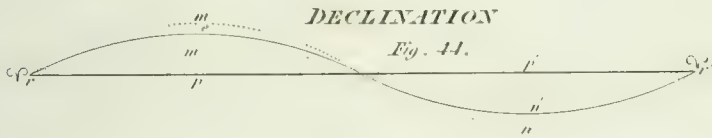
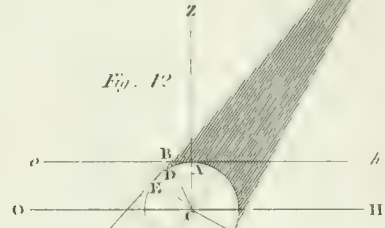


Fig. 12.



DIY

Fig. 13.

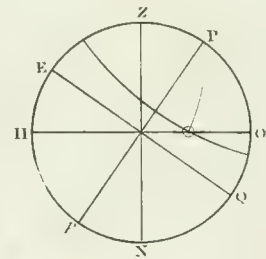


Fig. 15.

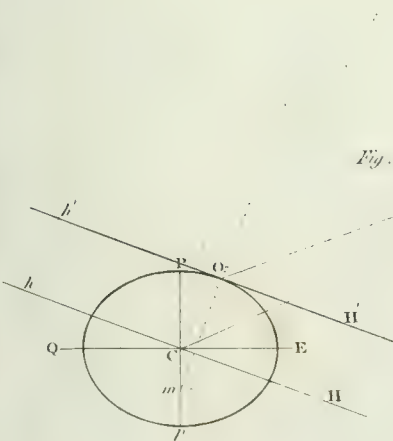
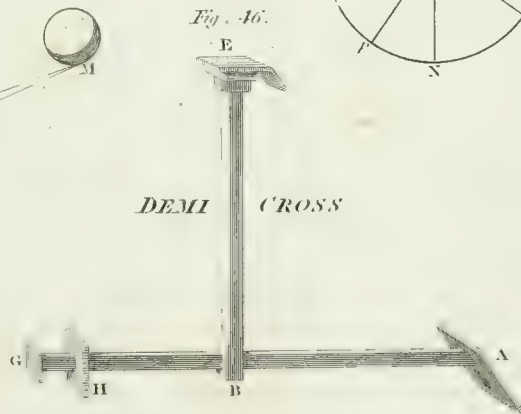


Fig. 46.

DEMI CROSS







DEGREE.

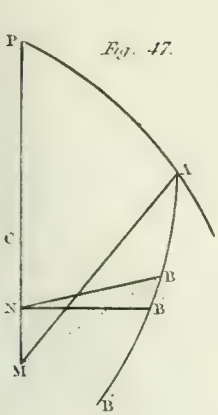


Fig. 47.

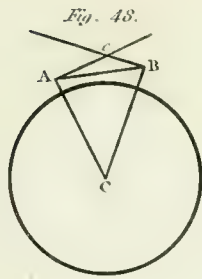


Fig. 48.

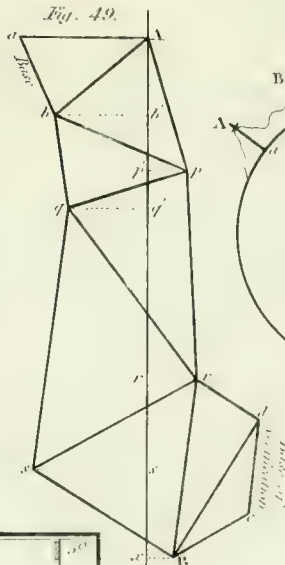


Fig. 49.

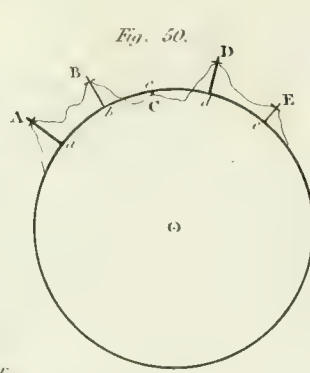


Fig. 50.

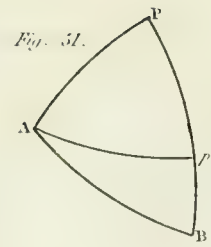


Fig. 51.

Fig. 53.

DEGREE measured in 1736.

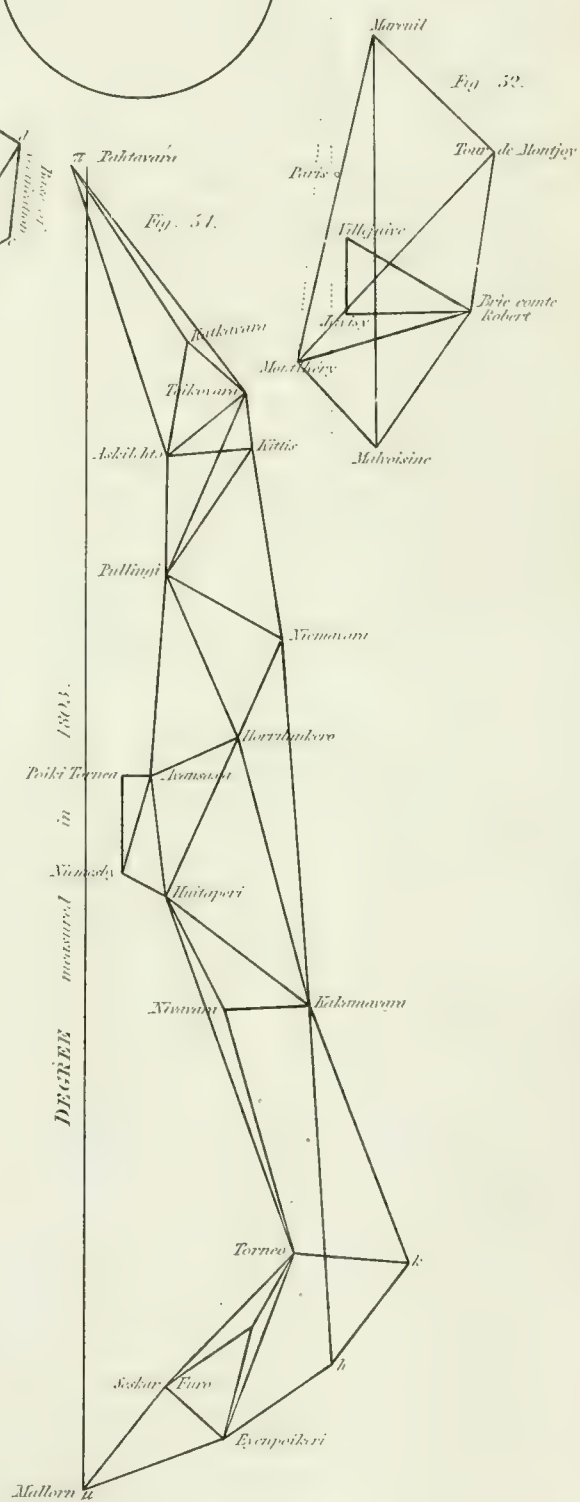
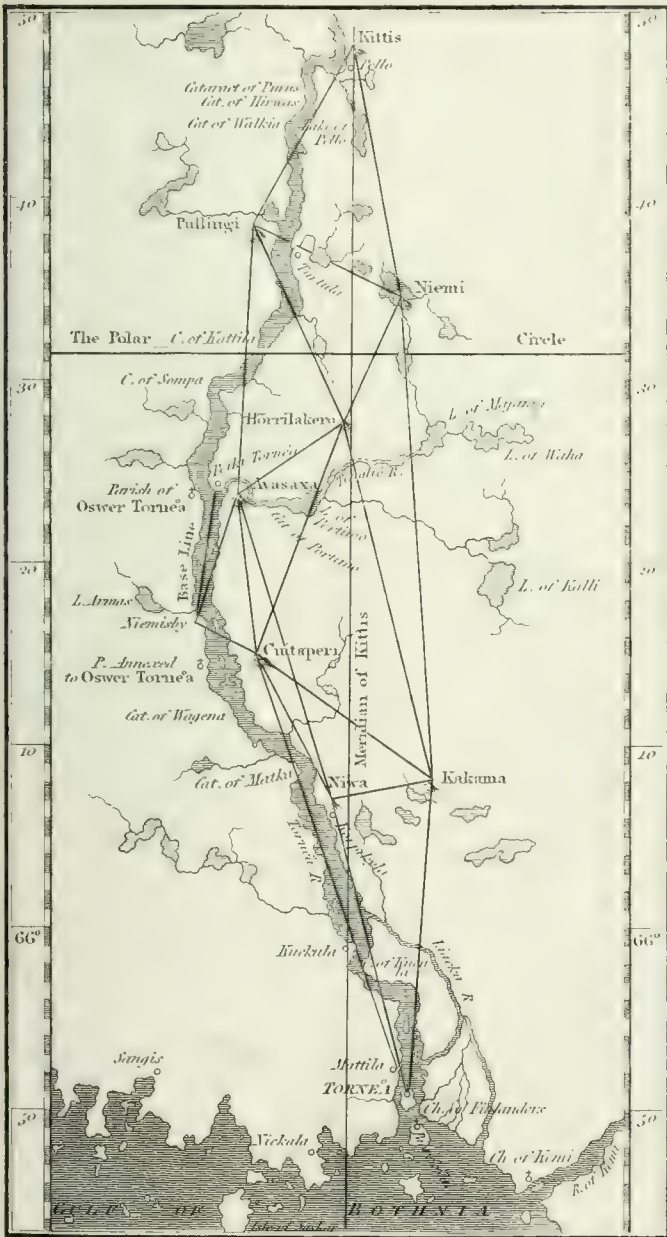
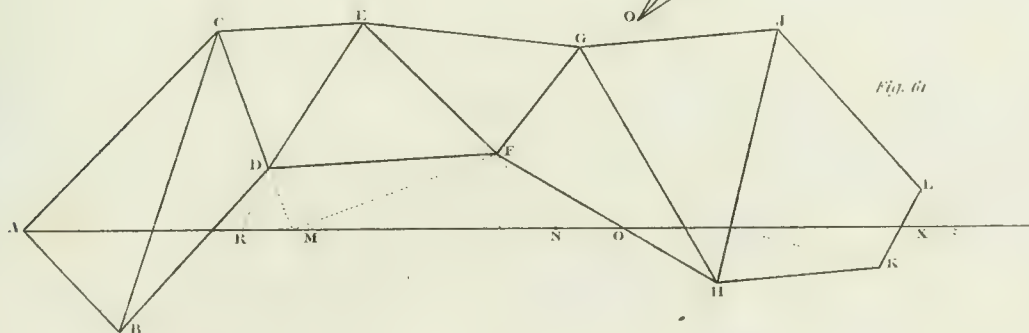
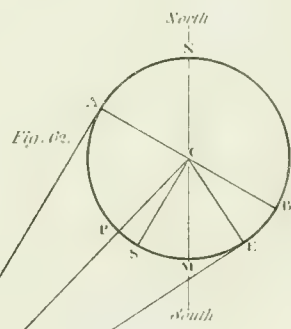
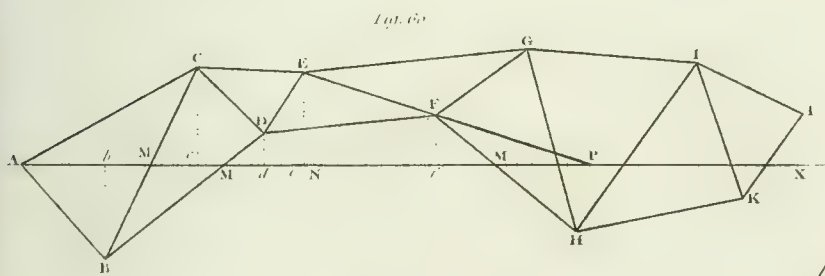
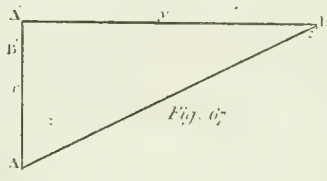
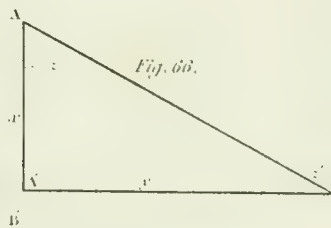
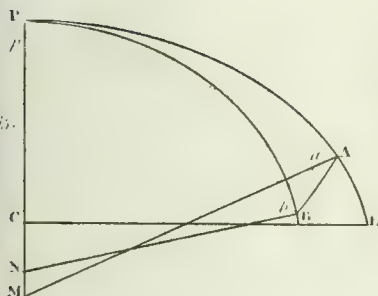
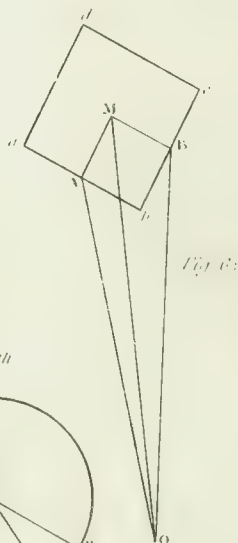
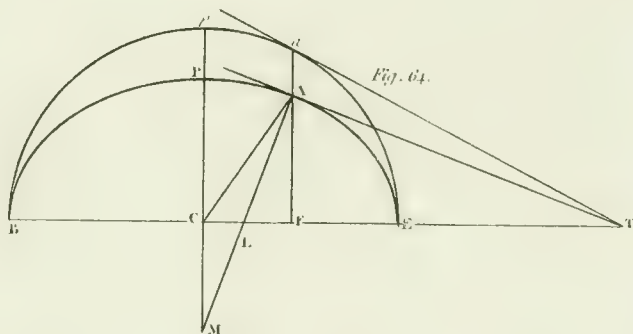
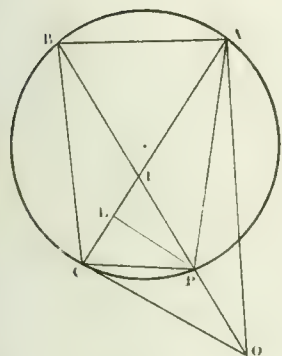
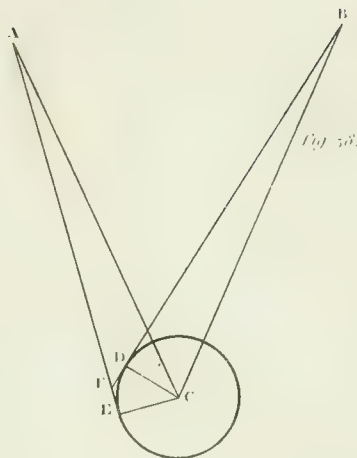
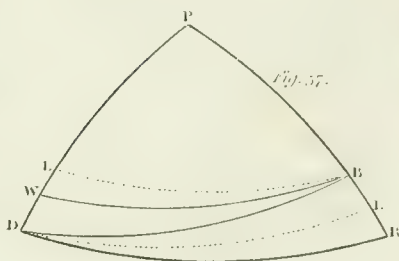
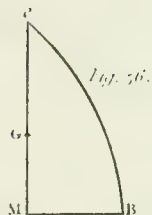
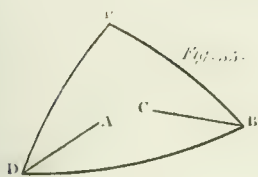


Fig. 51.

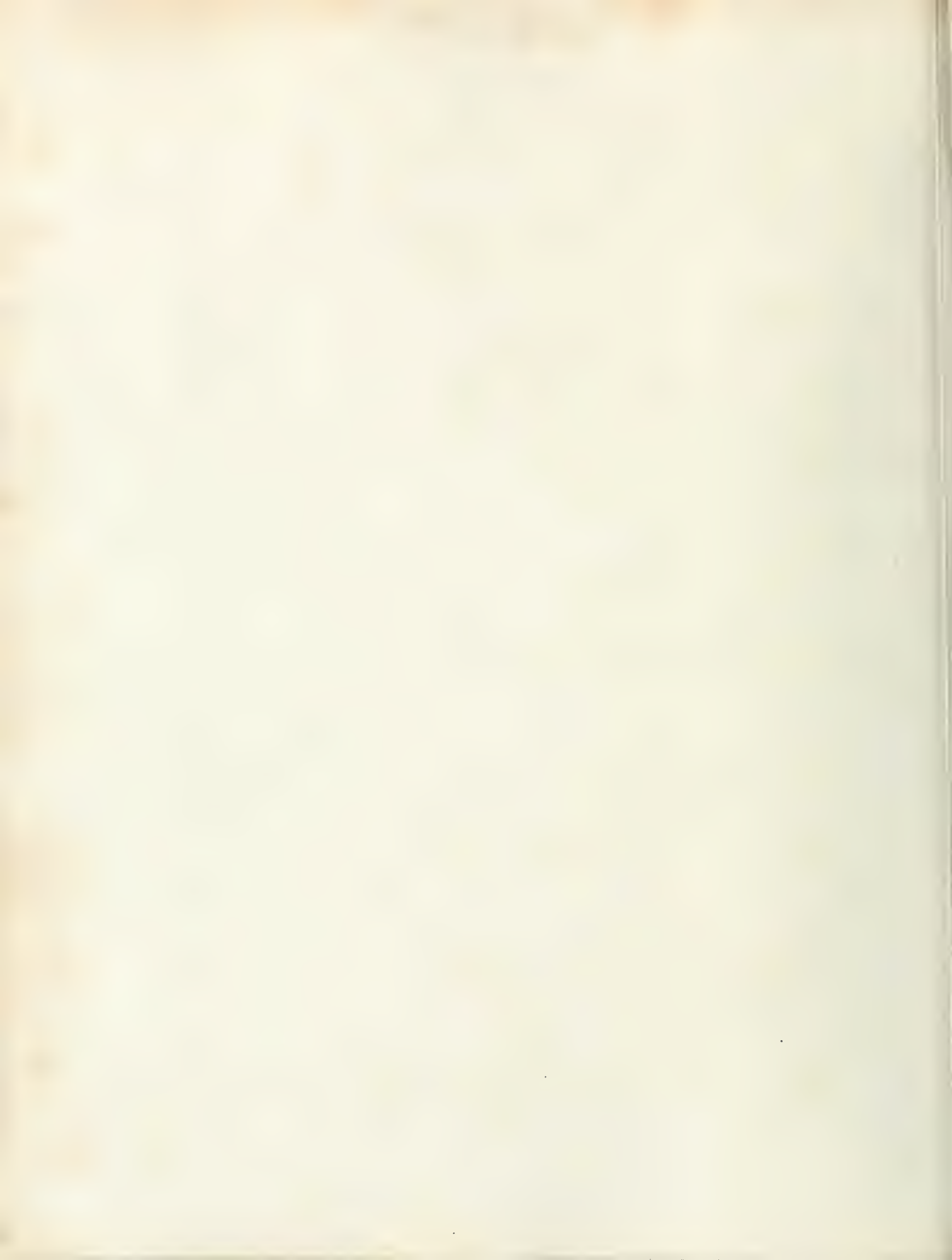
Fig. 52.



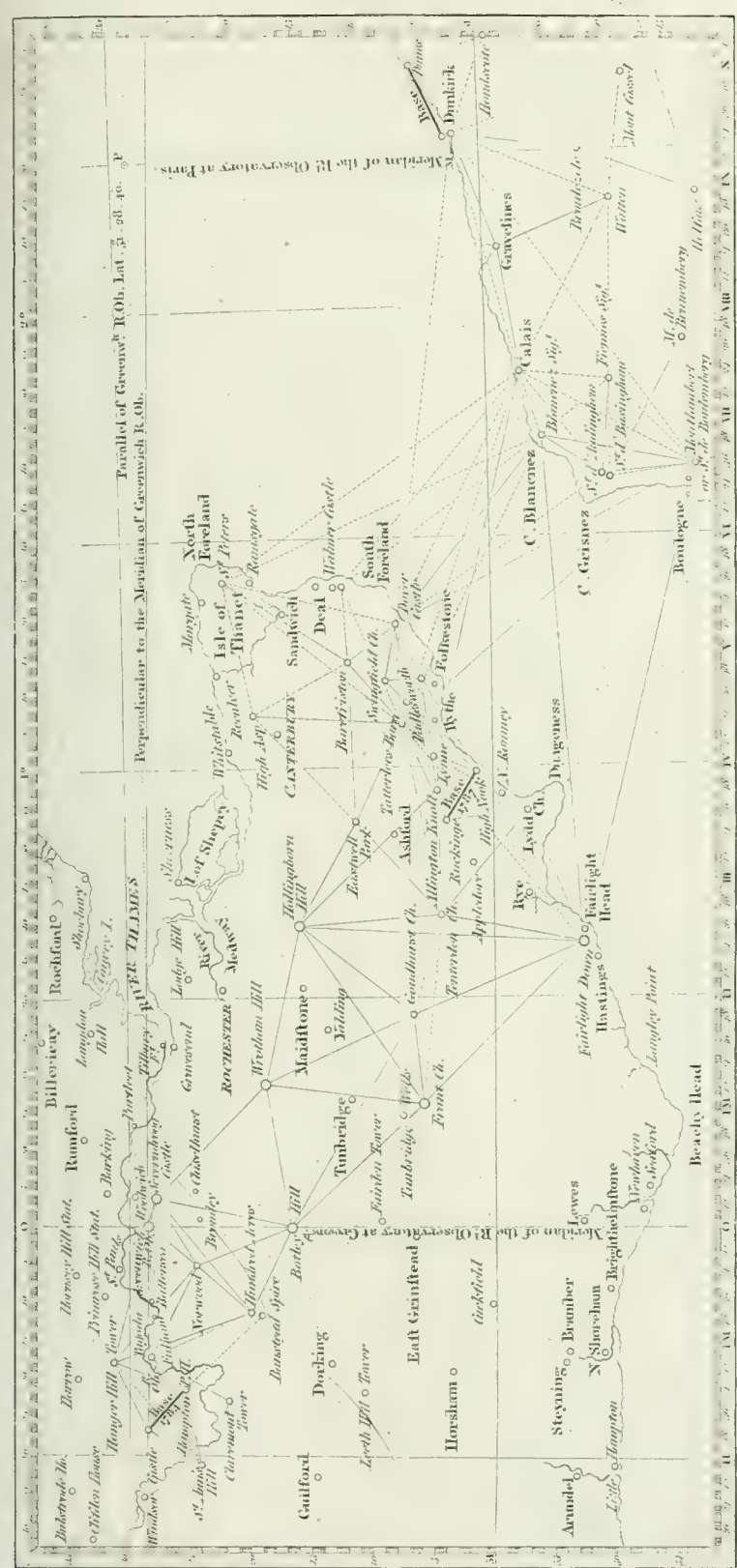
DEGREE.



Engraved by Wilson Lowry.

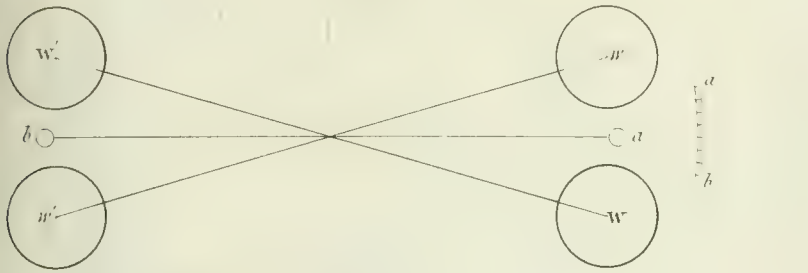




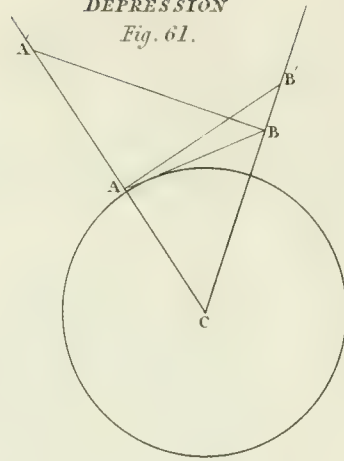




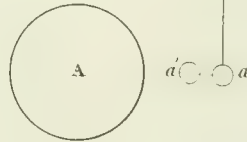
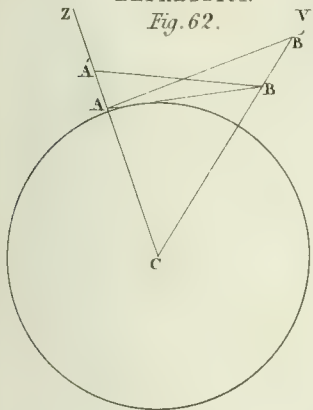
DENSITY  
Fig. 60.



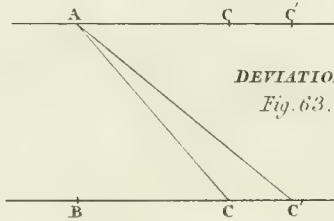
DEPRESSION  
Fig. 61.



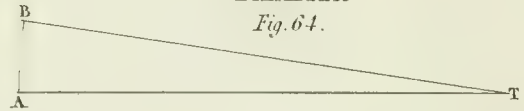
DEPRESSION  
Fig. 62.



DEVIATION  
Fig. 63.



DIAMETER  
Fig. 64.



DIAMETER  
Fig. 65.

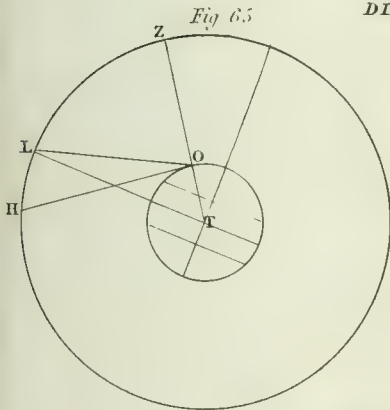
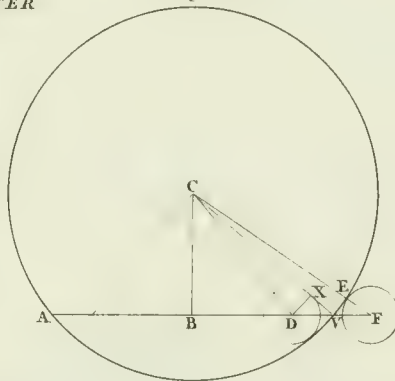
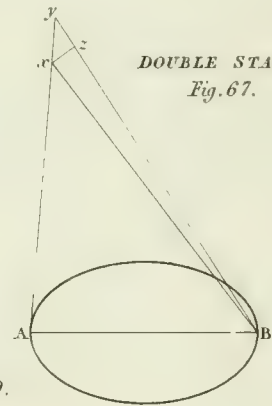


Fig. 66.



DOUBLE STAR  
Fig. 67.



DICHOTOMY  
\* Fig. 67.

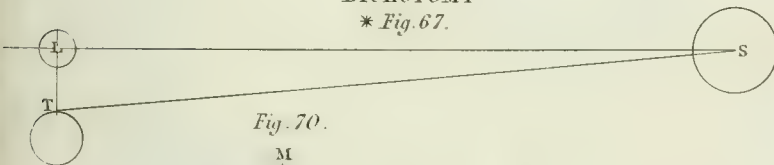
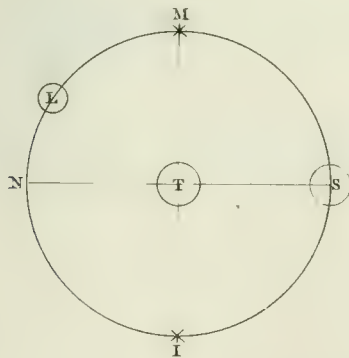


Fig. 70.



EARTH

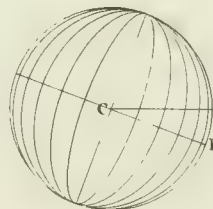


Fig. 68.

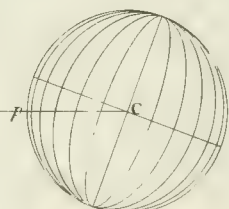
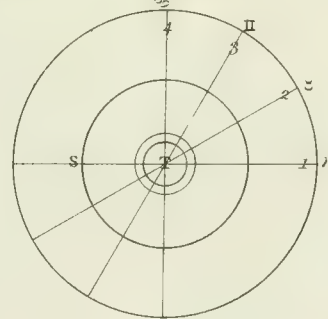


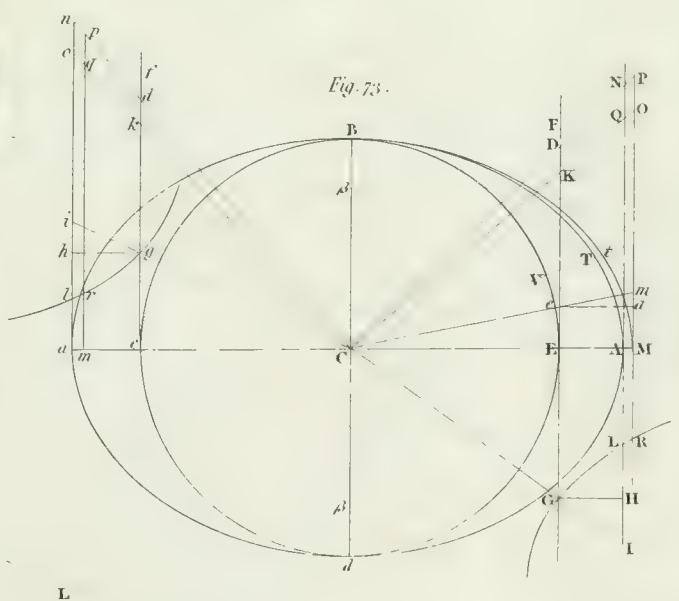
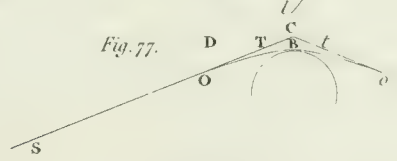
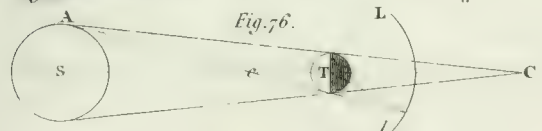
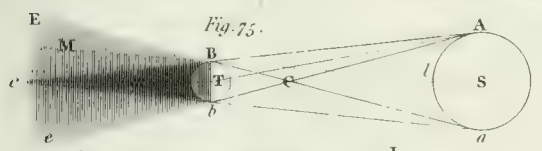
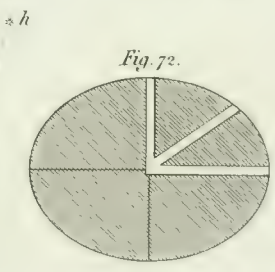
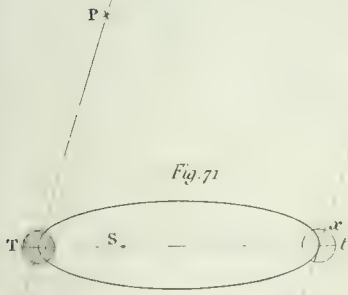
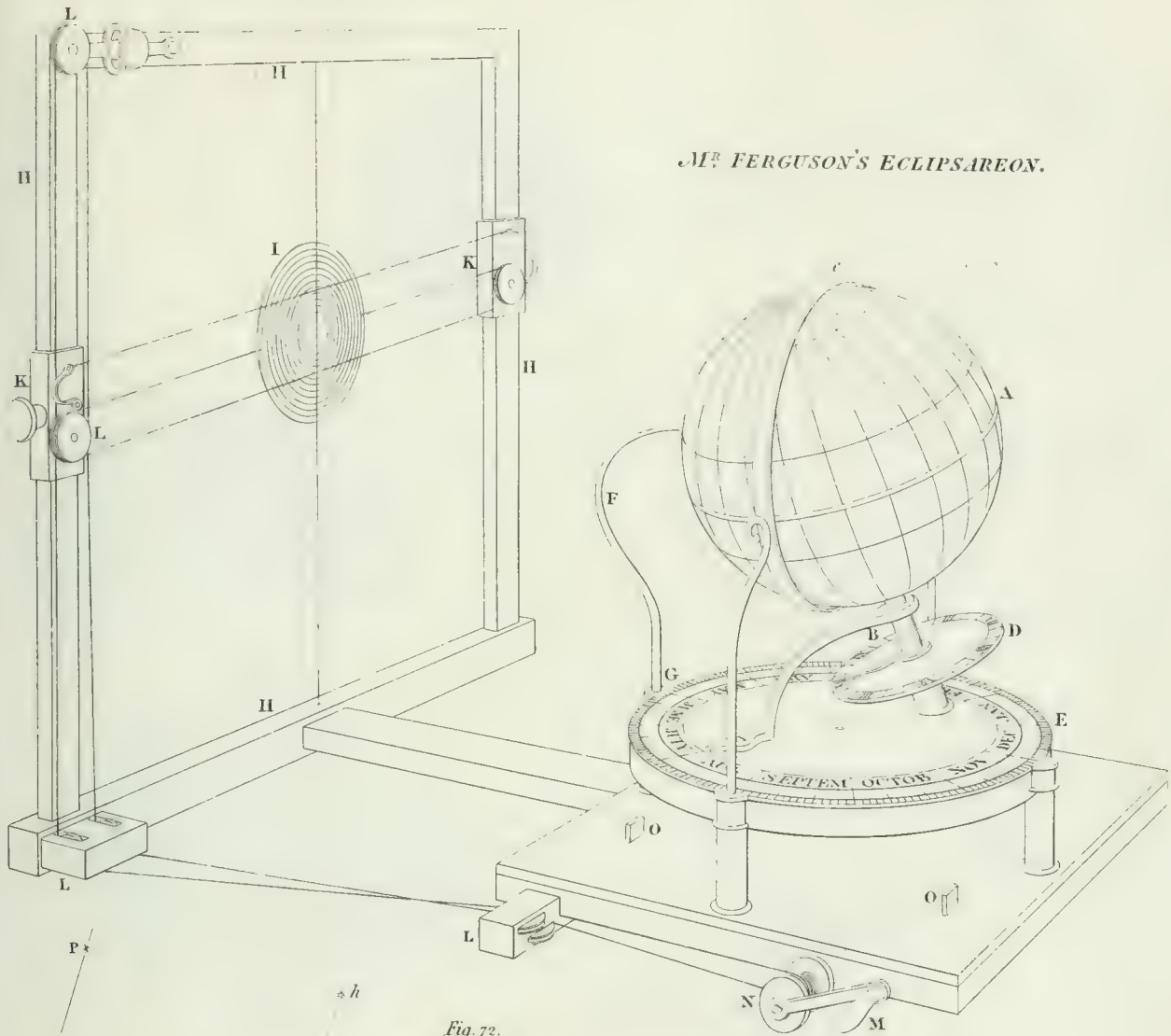
Fig. 69.







MR FERGUSON'S ECLIPSEON.





ECLIPSE.

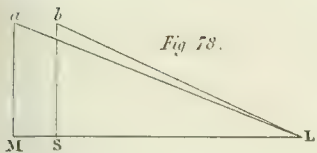


Fig. 78.

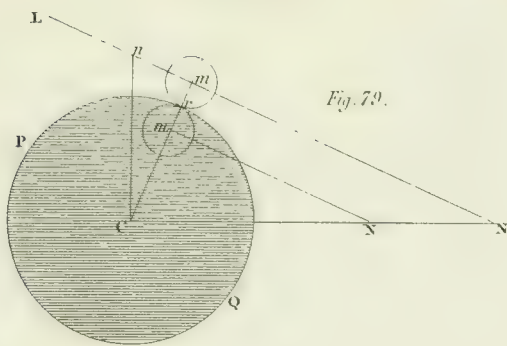


Fig. 79.

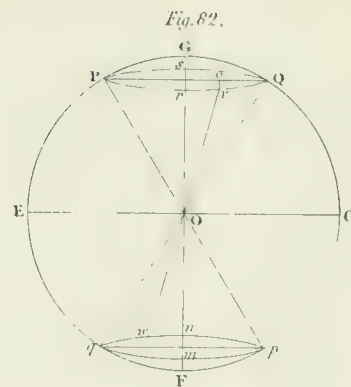


Fig. 82.

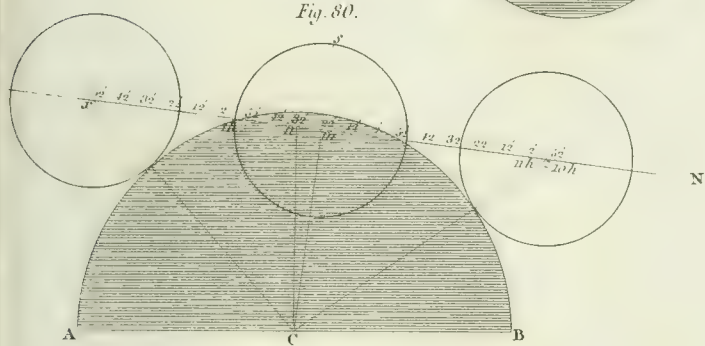


Fig. 80.

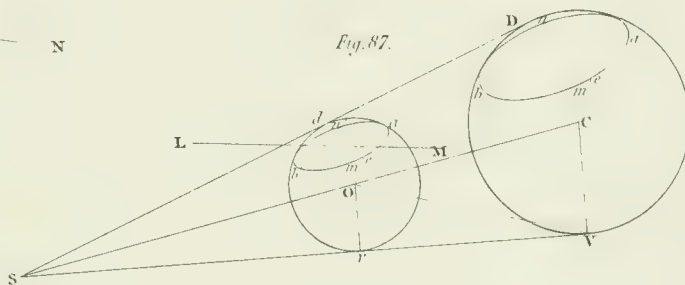


Fig. 87.

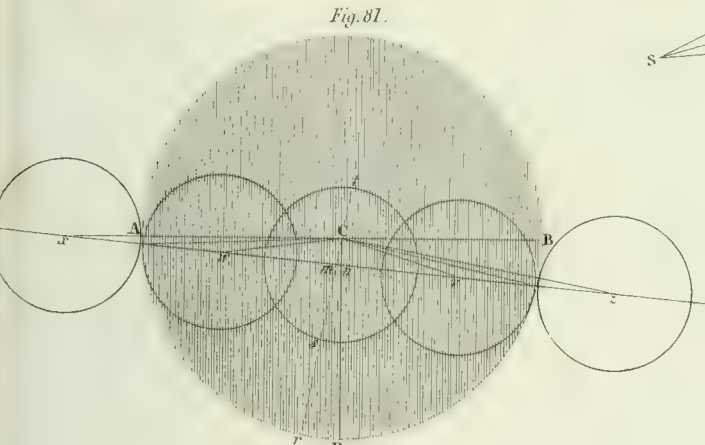


Fig. 81.

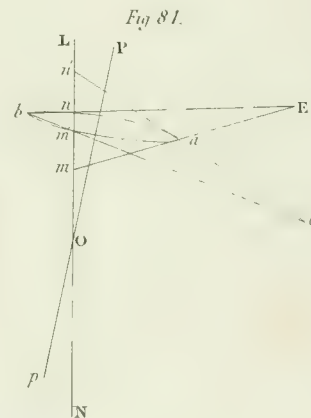


Fig. 84.

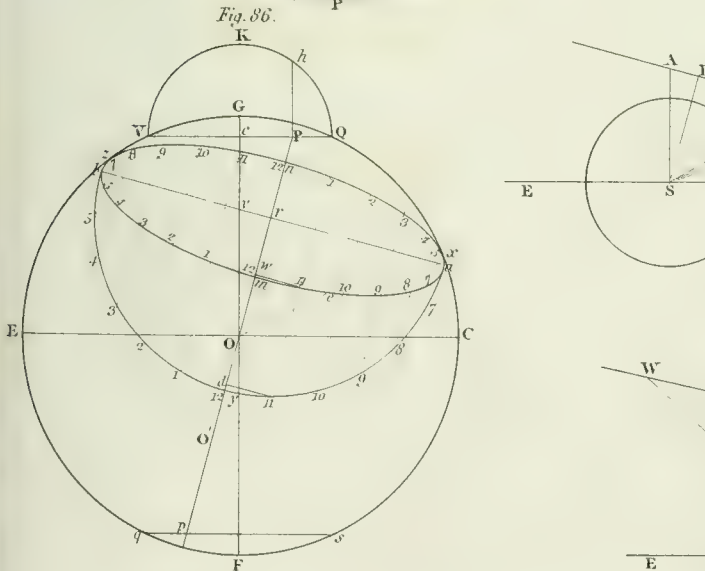


Fig. 86.

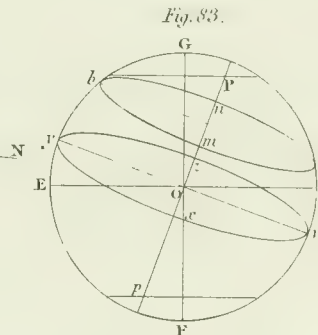


Fig. 83.

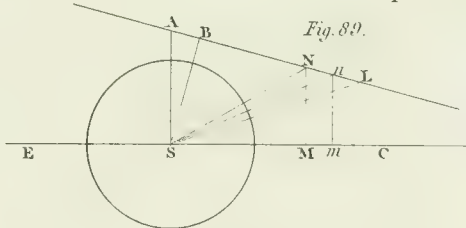


Fig. 89.

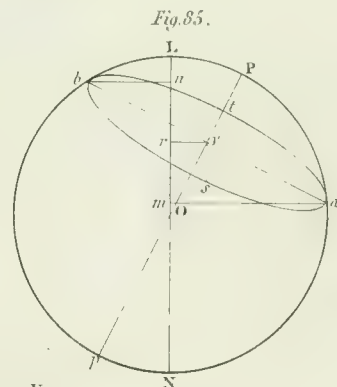


Fig. 85.

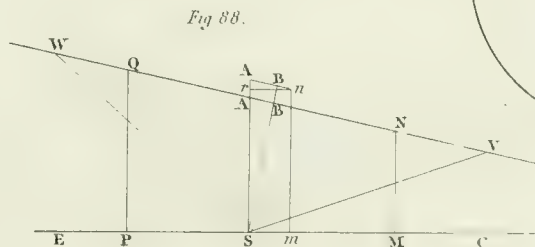


Fig. 88.





ECLIPSE.

Fig. 91 & 92.

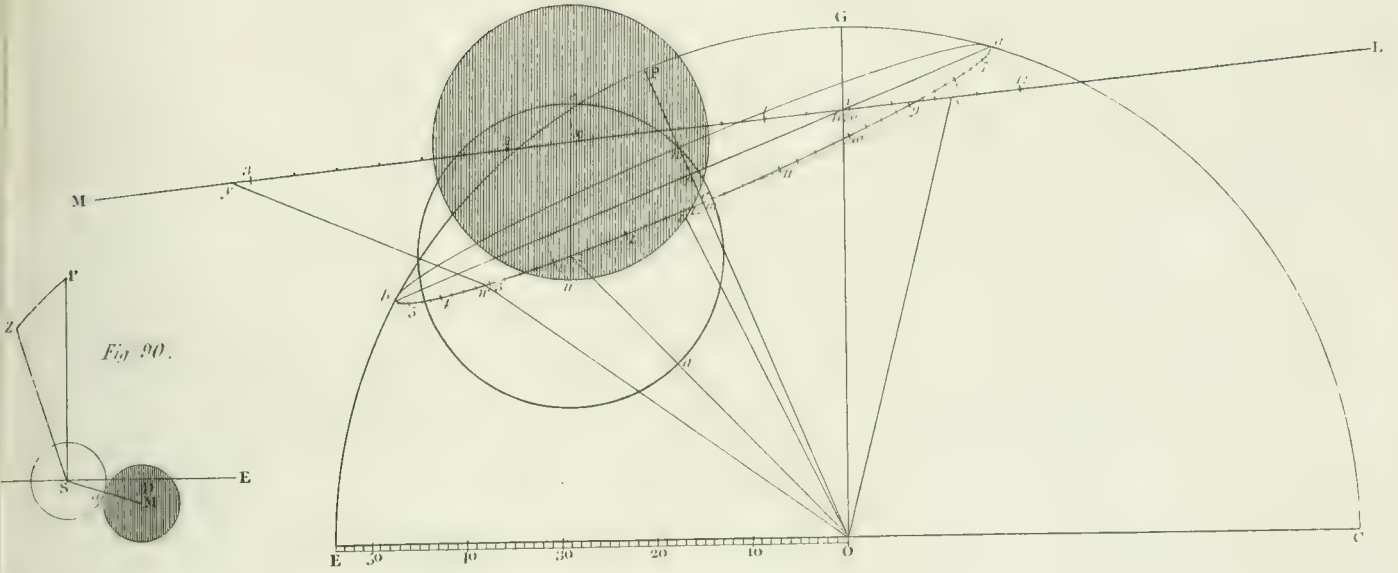


Fig. 93.

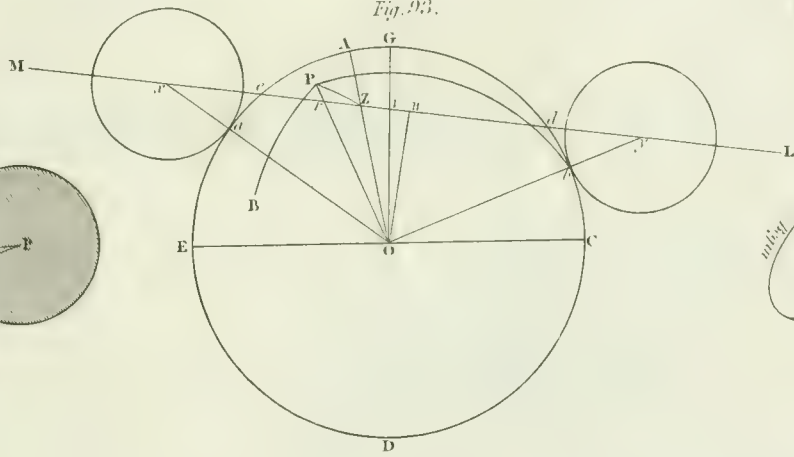


Fig. 92.

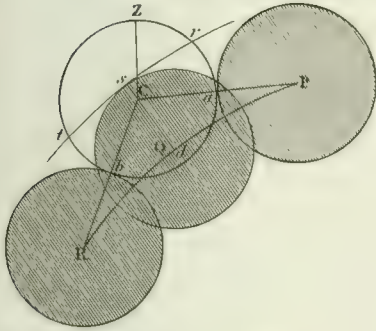


Fig. 98

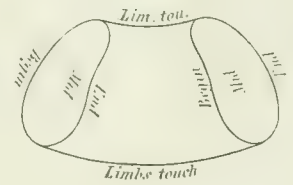


Fig. 95.

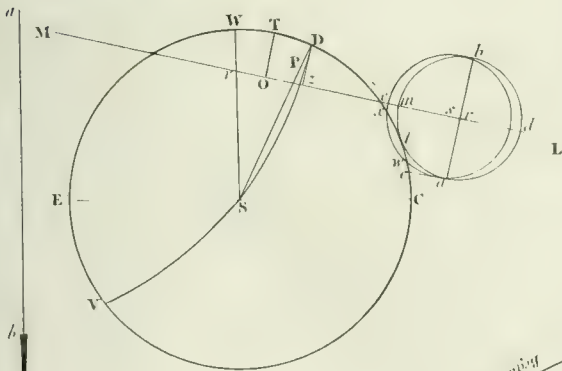


Fig. 97.

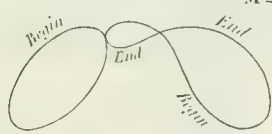


Fig. 94.

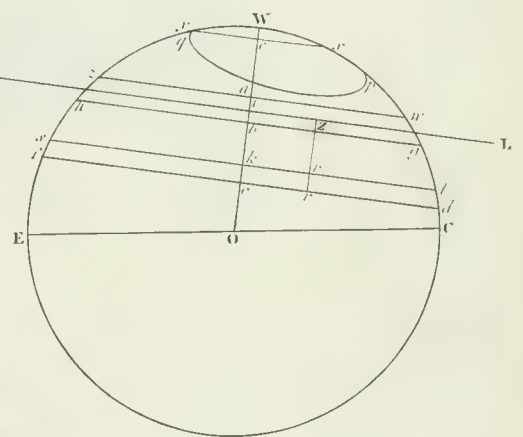


Fig. 96.

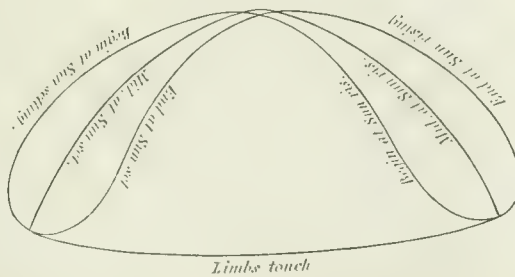




Fig. 99.  
ECLIPSE



Fig. 101.  
ECLIPTIC.

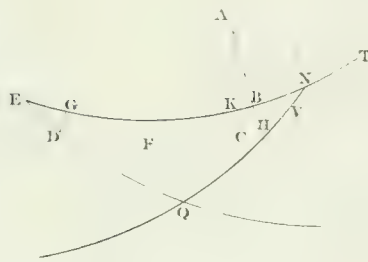
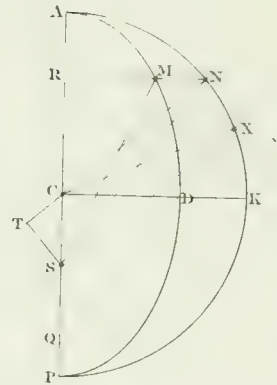


Fig. 103.  
ELLIPTIC



EPICYCLE

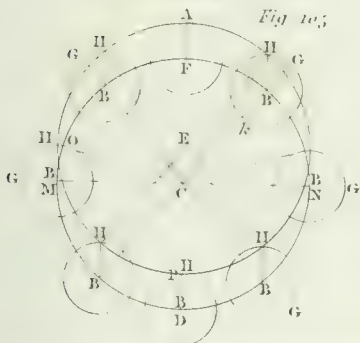
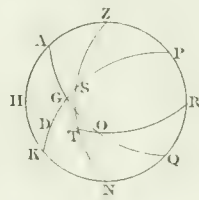


Fig. 102.

ELEVATION



EQUAL ALTITUDE

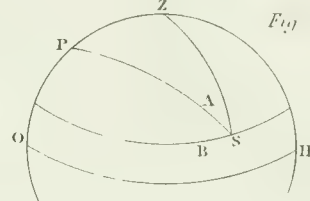


Fig. 106.

Fig. 100.  
ECLIPSE

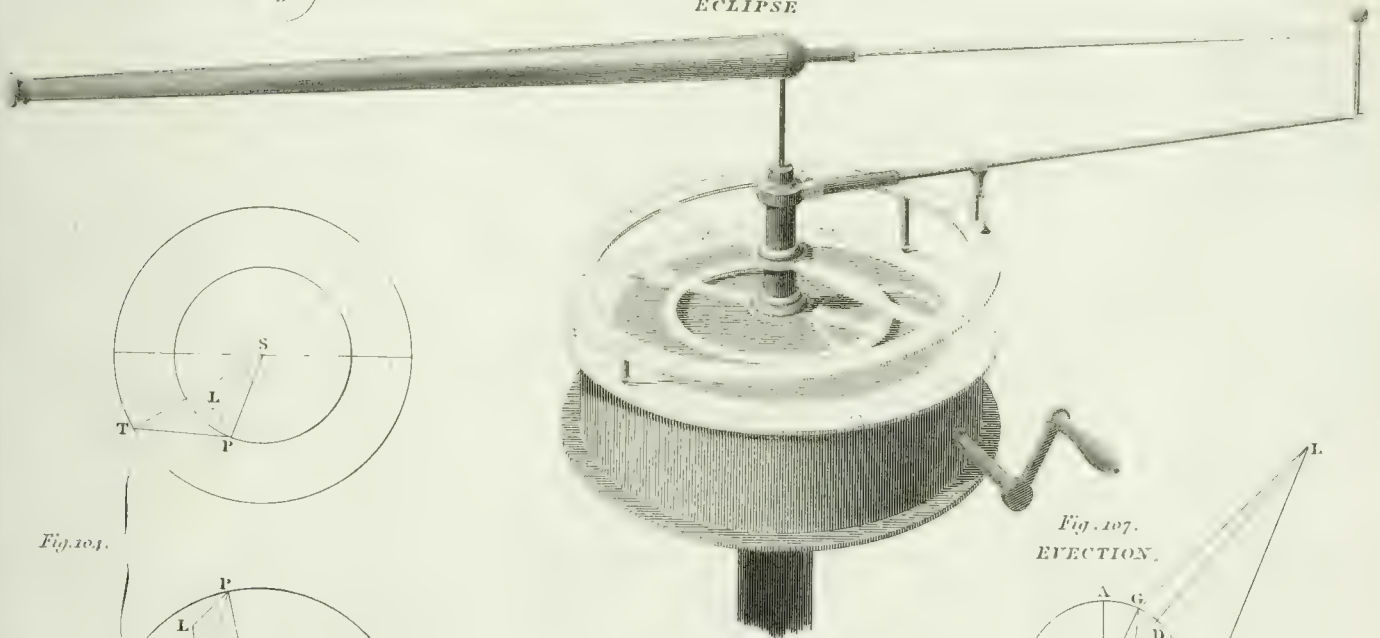


Fig. 104.

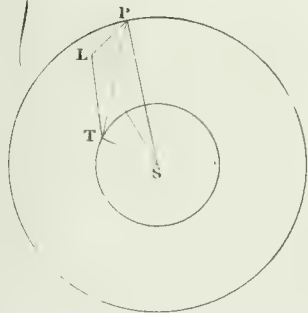
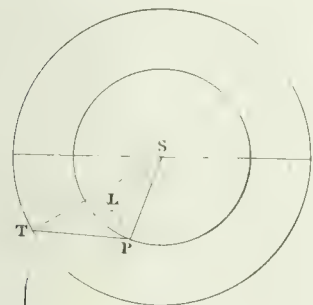


Fig. 107.  
EVECTION.

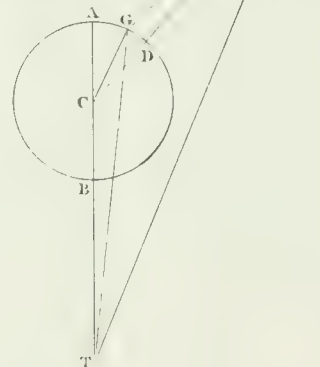
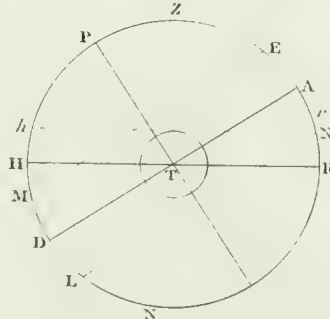


Fig. 109.\*  
EQUATOR







ASTRONOMY.  
ECLIPTIC.

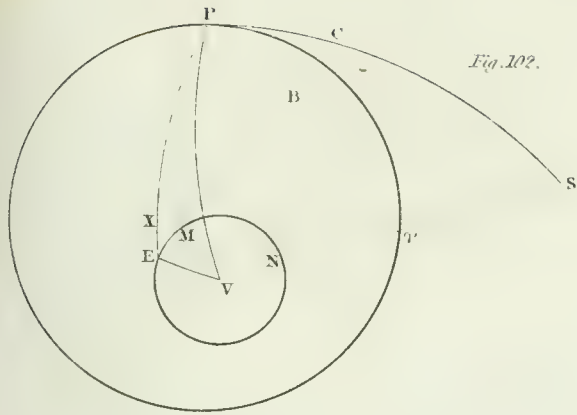


Fig. 102.

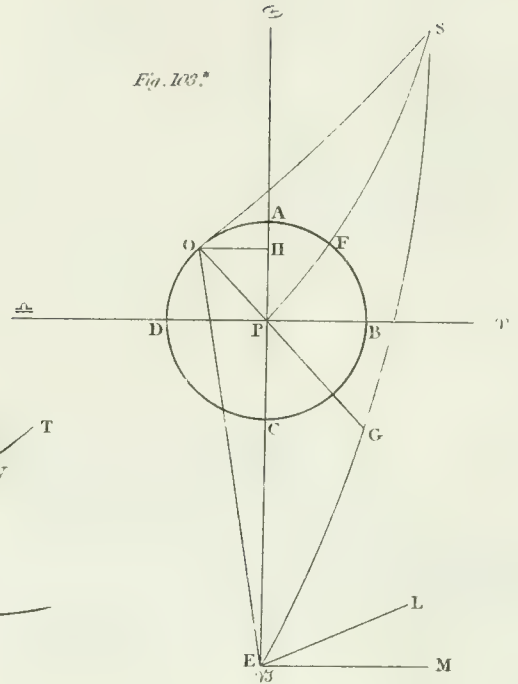


Fig. 103\*.

EQUINOX  
Fig. 110.

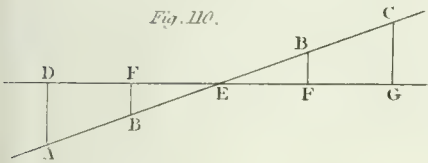
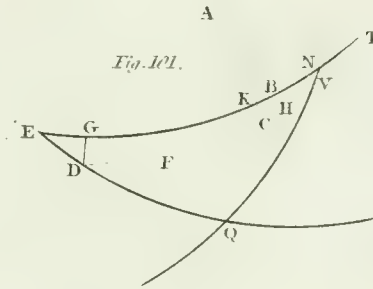


Fig. 101.



EQUATION of CENTER.

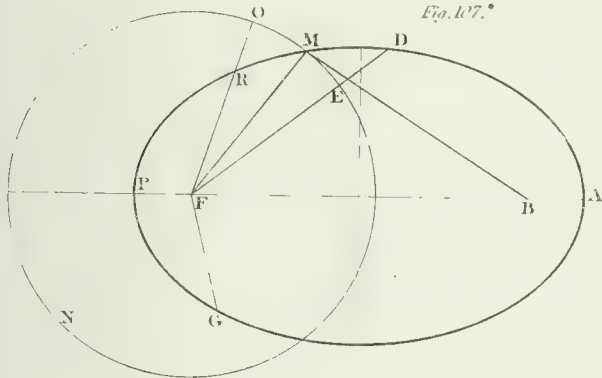
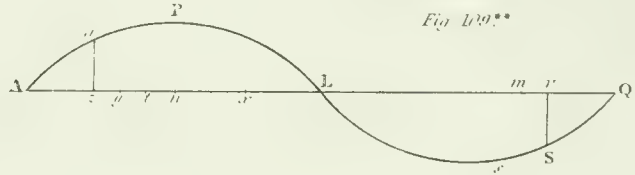


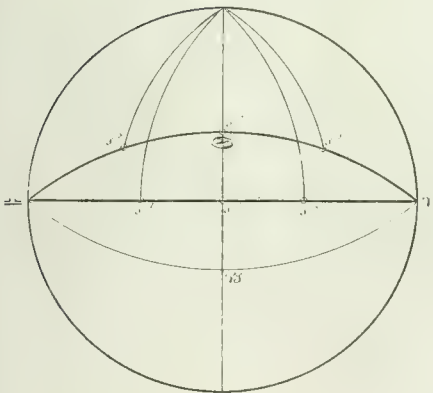
Fig. 107\*.

EQUATION of TIME.

Fig. 109\*\*.



N<sup>o</sup> 1.



EQUATION of TIME  
Fig. 108.

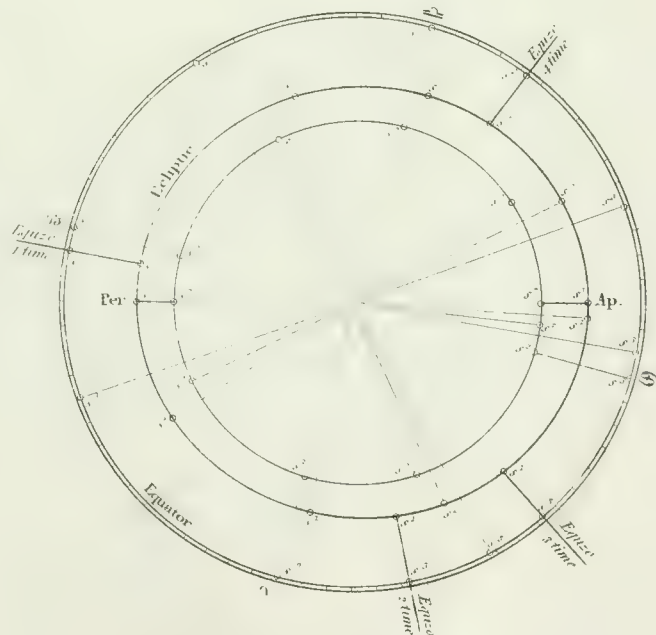




Fig. 12.

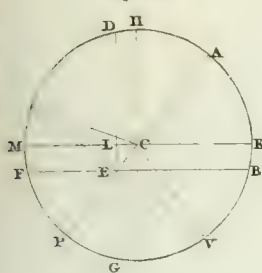
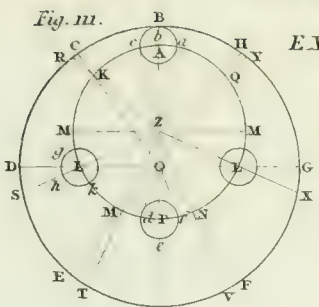


Fig. 13.



EXCENTRIC.

Fig. 13.

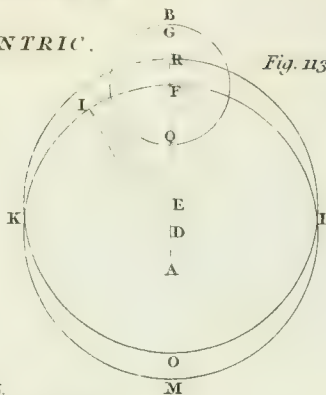


Fig. 14.

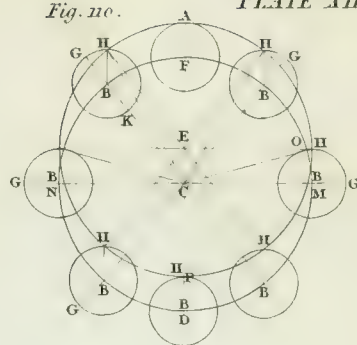


Fig. 5.

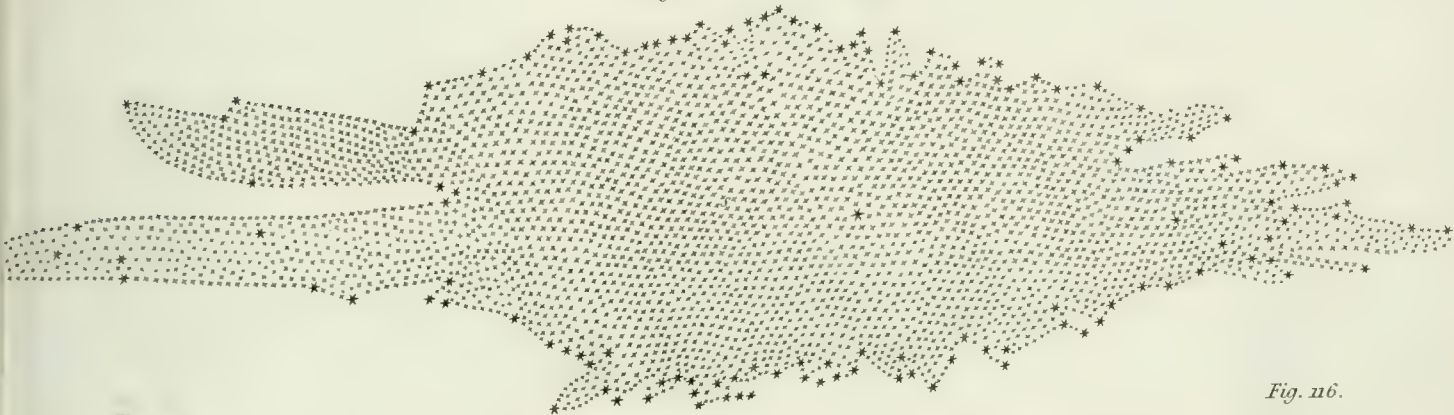
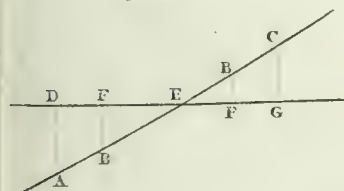


Fig. 10.



GALAXY

Fig. 14.

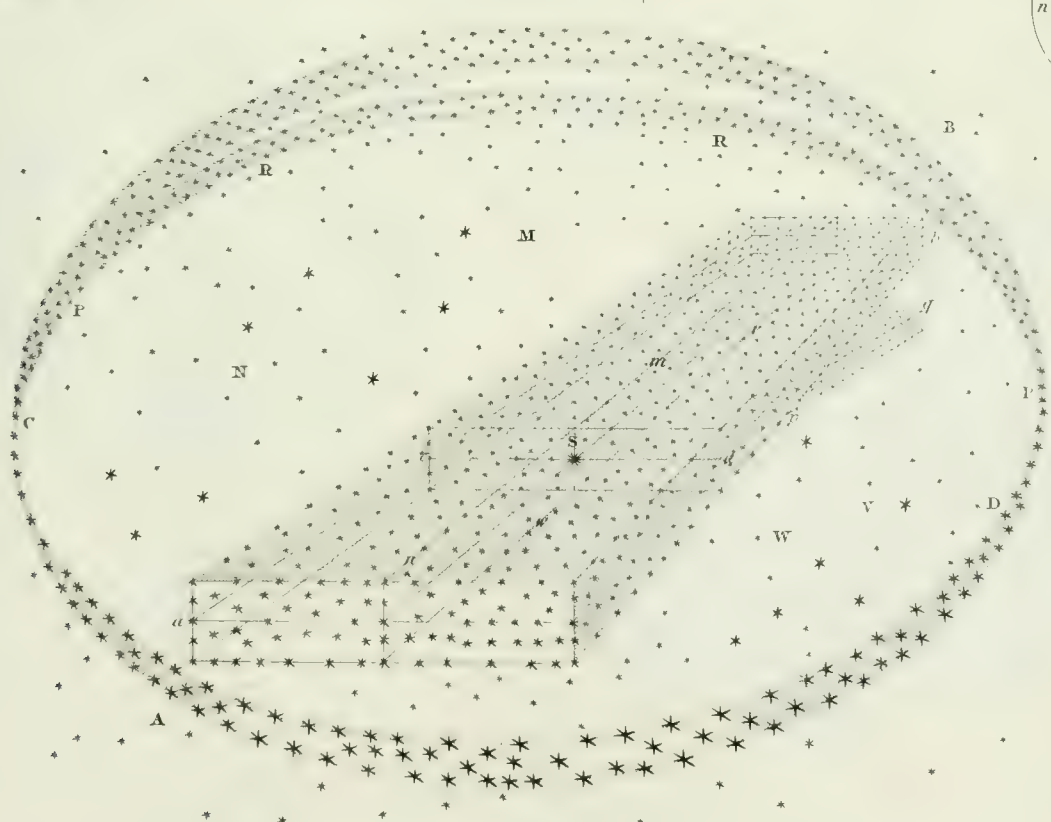
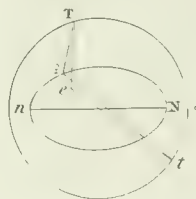


Fig. 16.

GEOCENTRIC.







GLOBE.

Fig. 117.

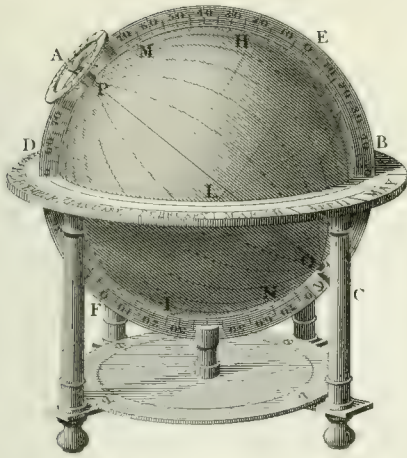


Fig. 118.

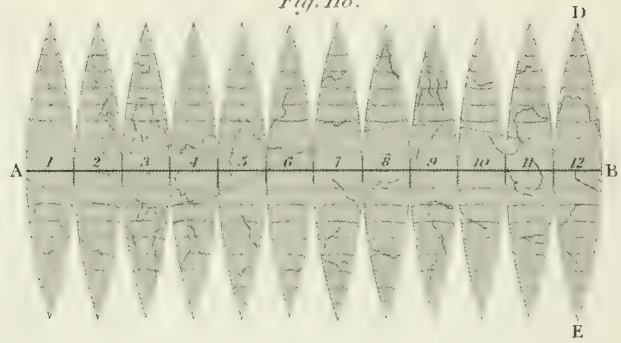


Fig. 119 & 121.

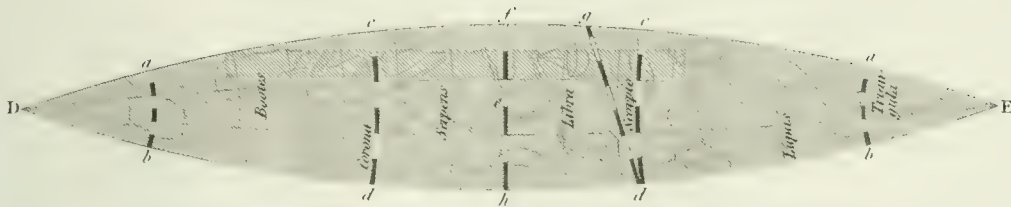


Fig. 120.

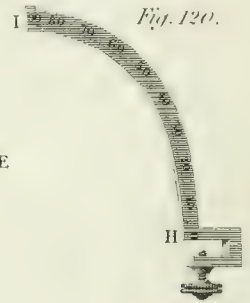


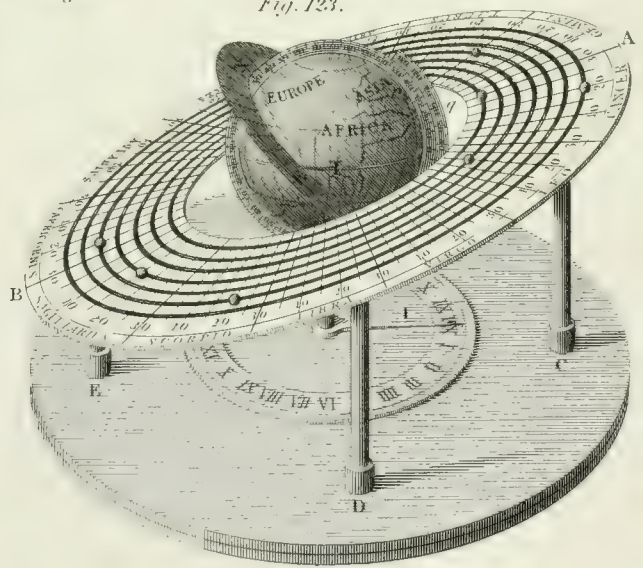
Fig. 122.

Ferguson's Celestial Globe.



Ferguson's Planetary Globe.

Fig. 123.





ASTRONOMY.  
GRAVITATION.

Fig. 124.

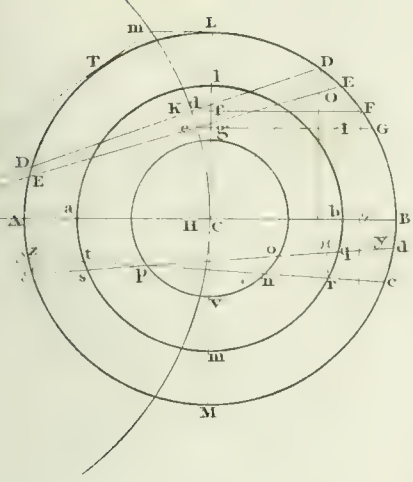


Fig. 125.

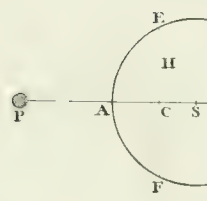


Fig. 127.

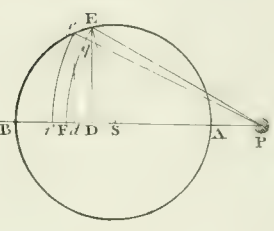


Fig. 126.

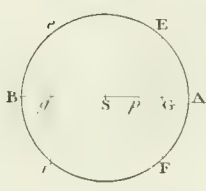


Fig. 128.

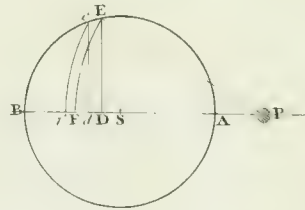


Fig. 130.

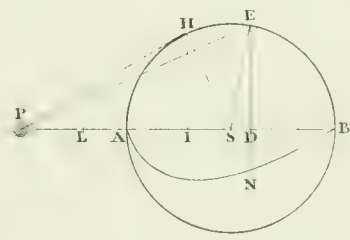


Fig. 129.

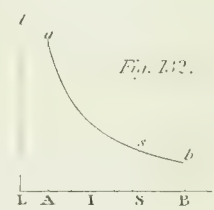
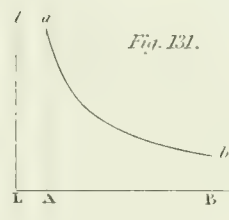
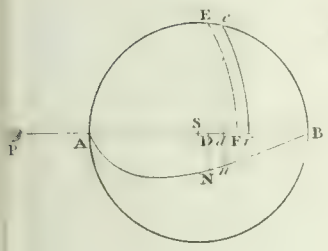


Fig. 134.

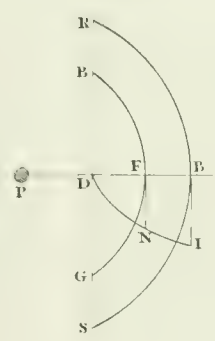


Fig. 135.

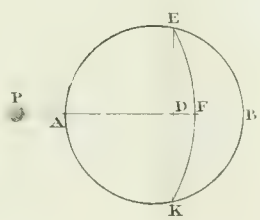


Fig. 133.

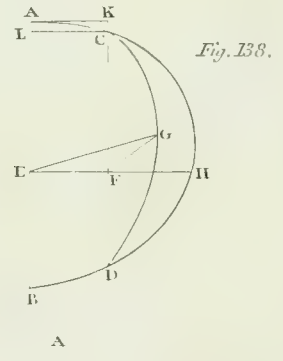
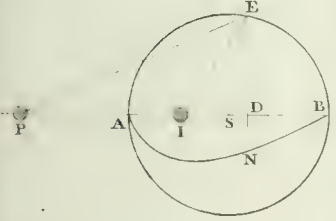


Fig. 136.

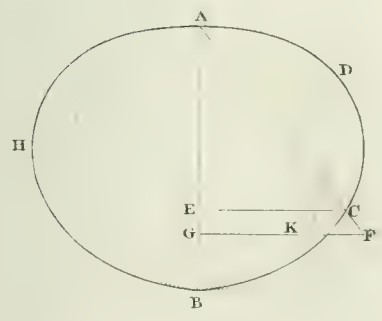


Fig. 137.

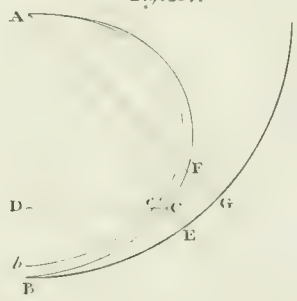
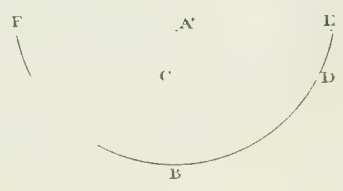


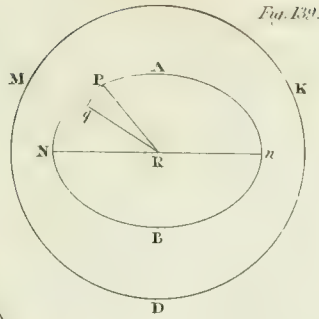
Fig. 137.



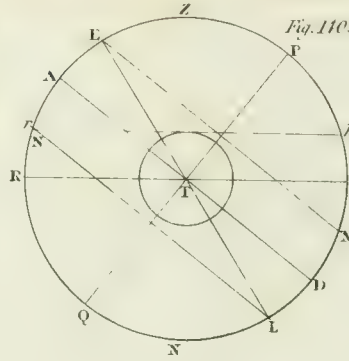




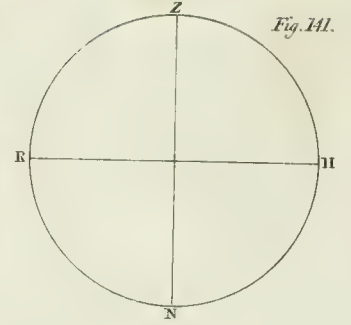
HELIOCENTRIC.  
Latitude.



HEMISPHERE, HORIZON, TROPICS.



HORIZON.



HEAT.

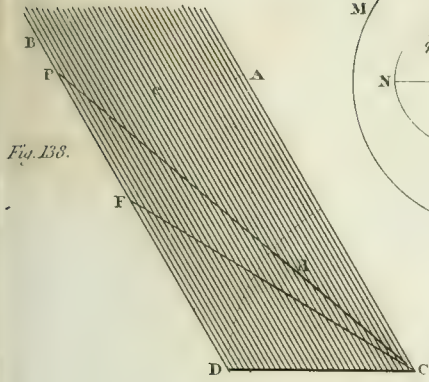
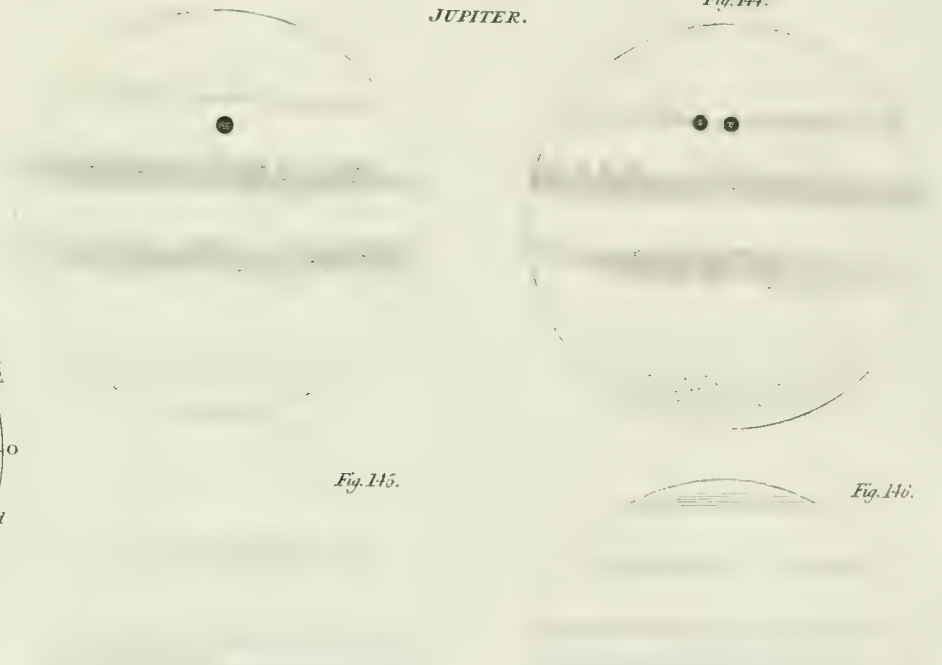


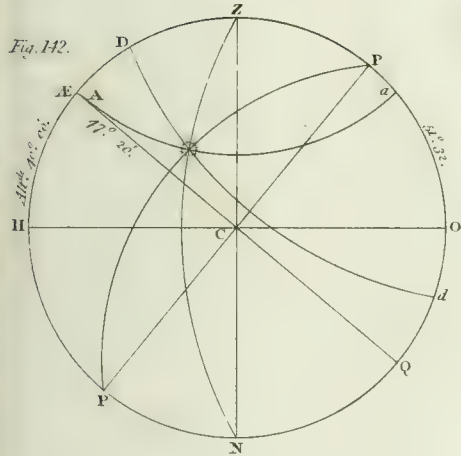
Fig. 143.

JUPITER.

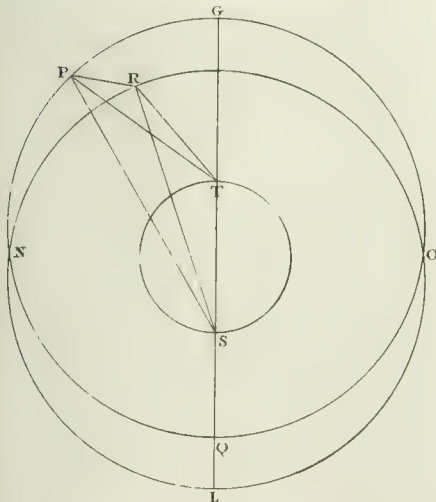
Fig. 144.



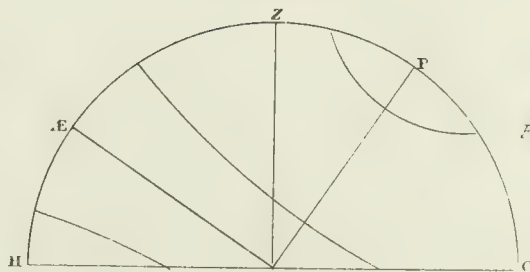
HOUR.



LATITUDE, REDUCTION.



LATITUDE.





LONGITUDE.

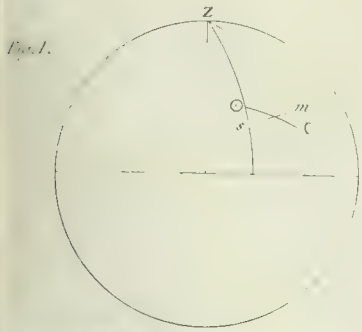
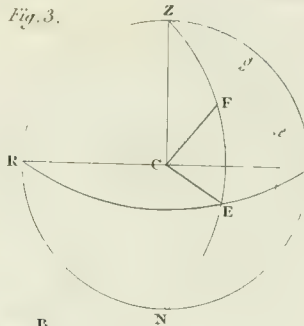


Fig. 2.

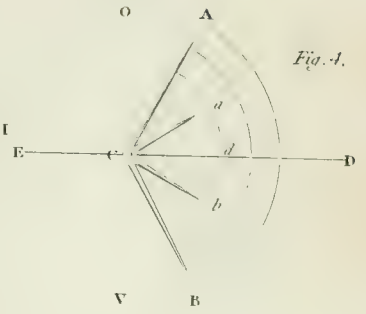
MARS.

Fig. 3.



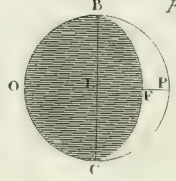
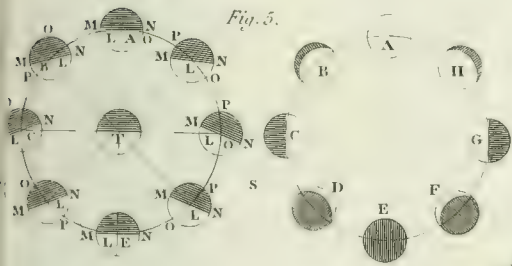
MERIDIAN LINE.

Fig. 4.



MOON

Fig. 5.



South

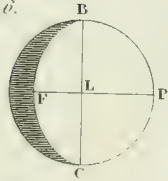


Fig. 10.

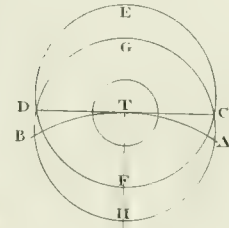
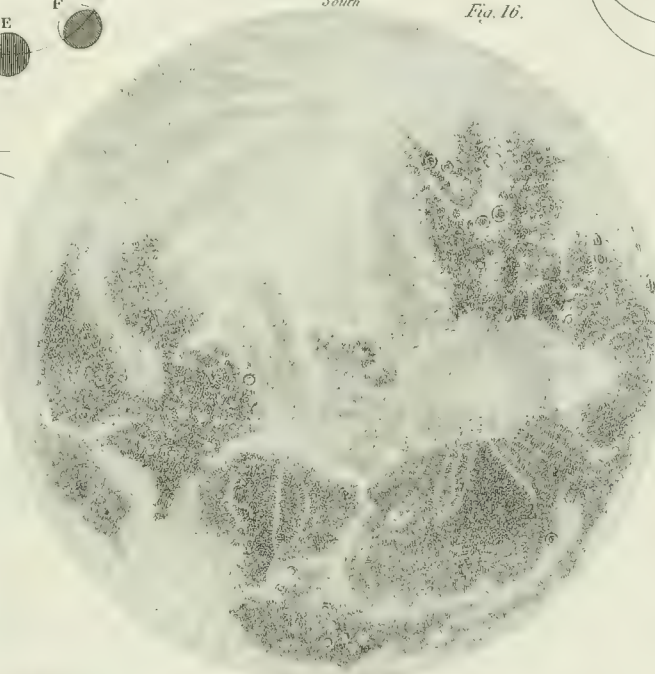
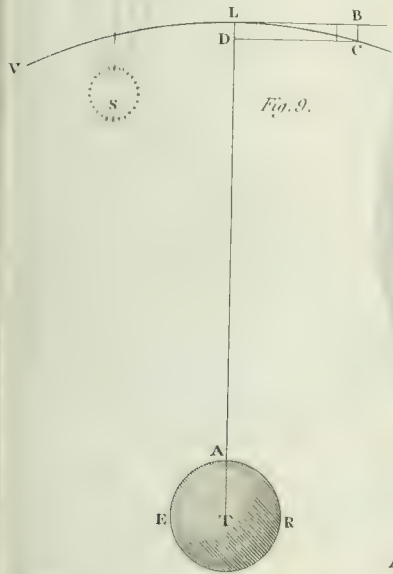


Fig. 9.



North

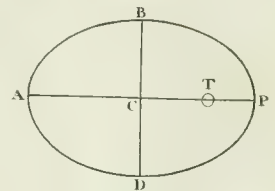


Fig. 12.

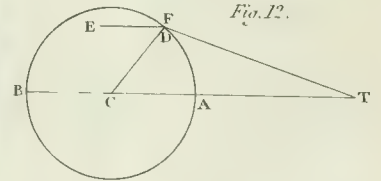
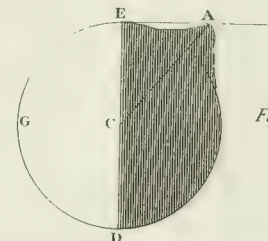


Fig. 14.



West

East

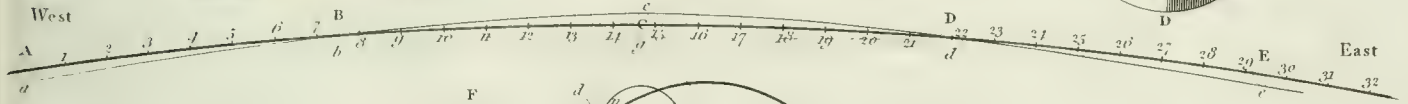


Fig. 13.

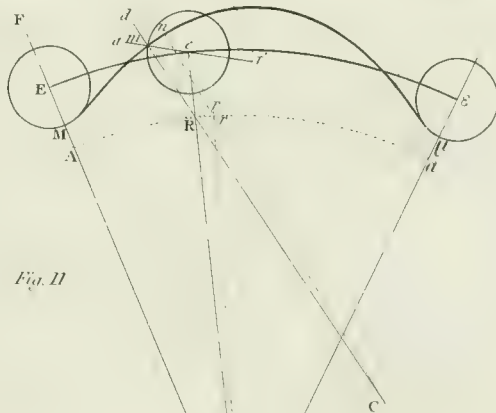
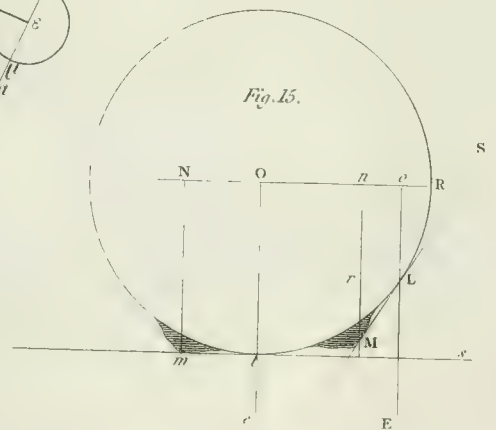
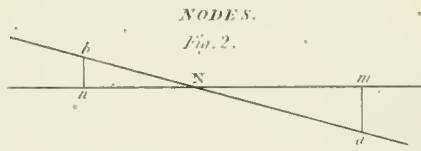
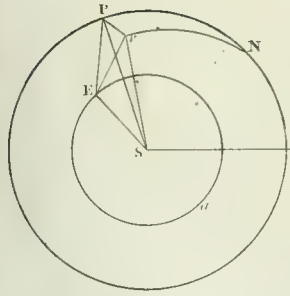


Fig. 15.





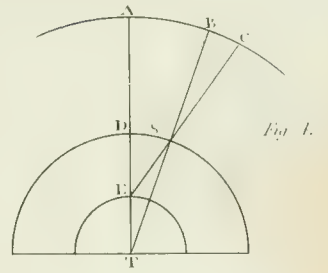




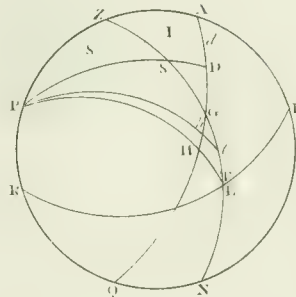
**PARACENTRIC.**  
*Fig. 3.*



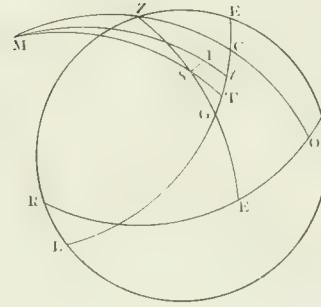
**PARALLAX.**



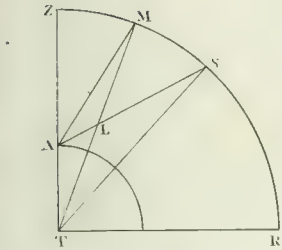
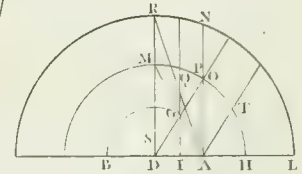
*Fig. 6.*



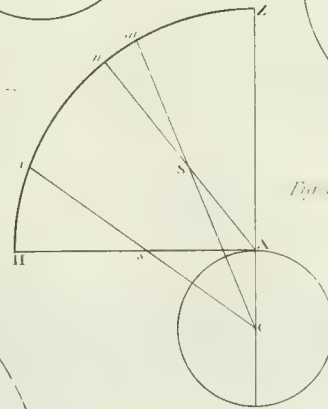
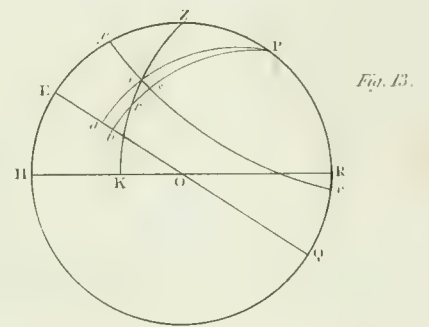
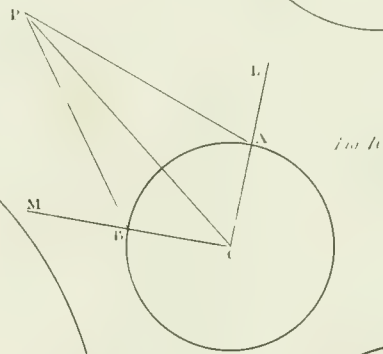
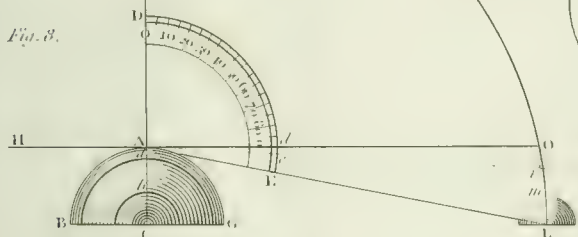
*Fig. 7.*



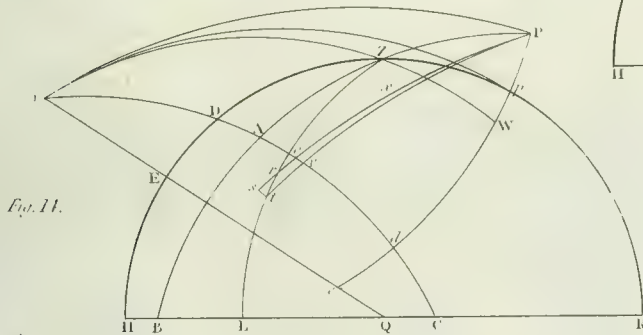
*Fig. 11.*



**Moons**  
**PARALLAX.**

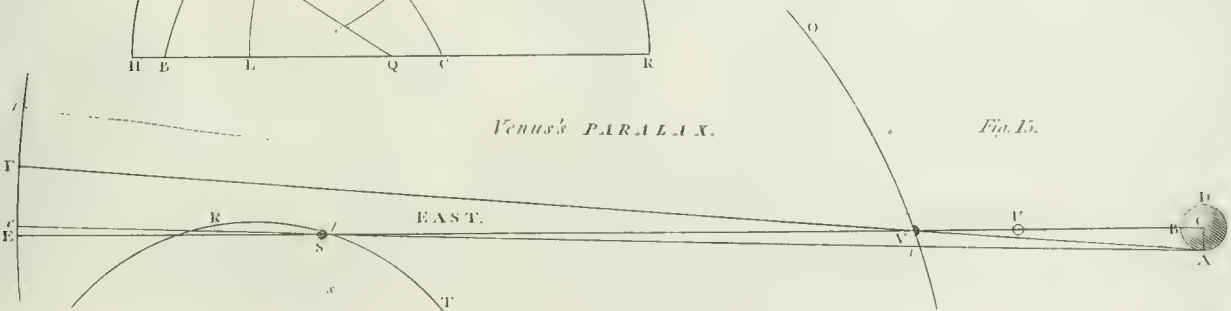


*Fig. 12.*



**Venus's PARALLAX.**

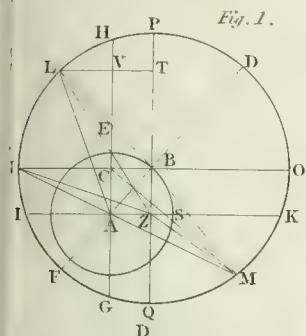
*Fig. 15.*





PARTICULA cersors

Fig. 1.



PENUMBRA

Fig. 2.

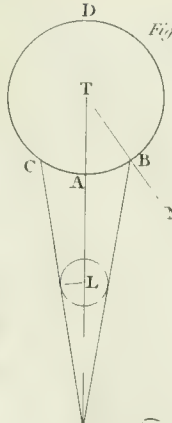


Fig. 3.

Fig. 6.

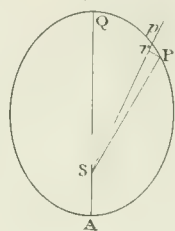
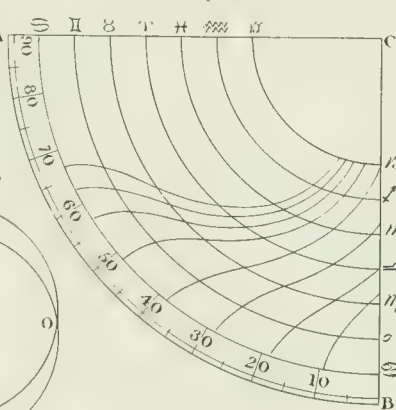


Fig. 8.

Horodical QUADRANT.



P L A N E T

Fig. 4.

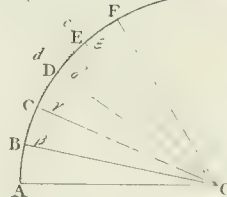


Fig. 5.

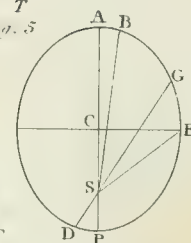
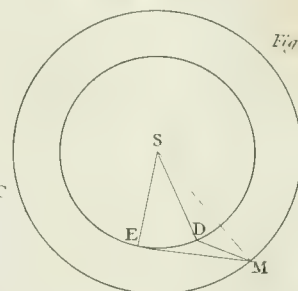
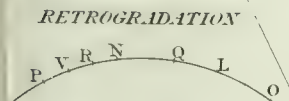


Fig. 3.



REERACTIION

Fig. 11.



LATITUDE, REDUCTION

Fig. 9.

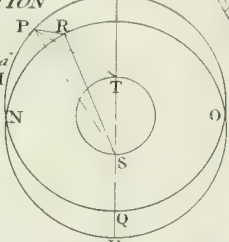
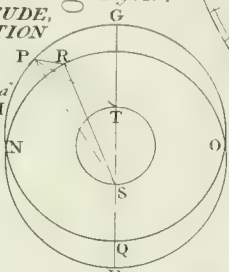
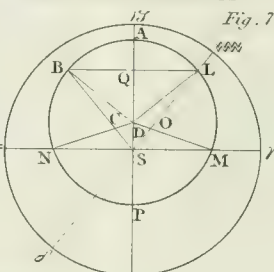


Fig. 10.



PROSTILAPHERESIS

Fig. 7.



RETROGRADATION

Fig. 12.

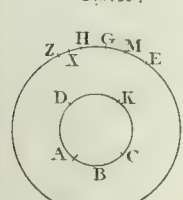
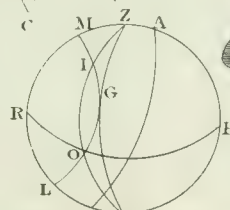


Fig. 13.



Saturn's RING

Fig. 14.

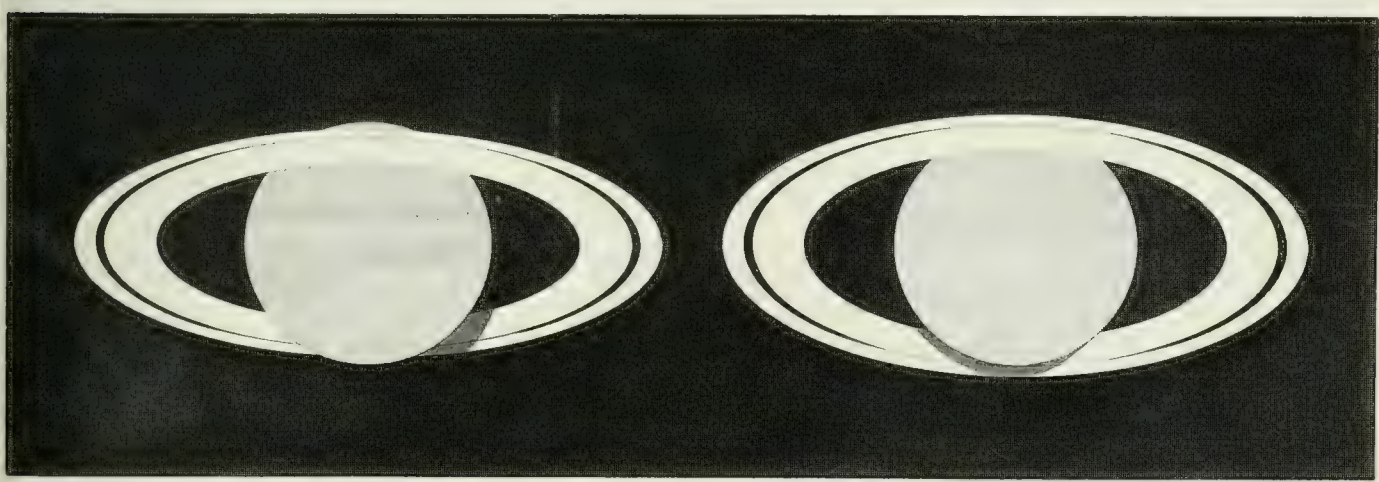
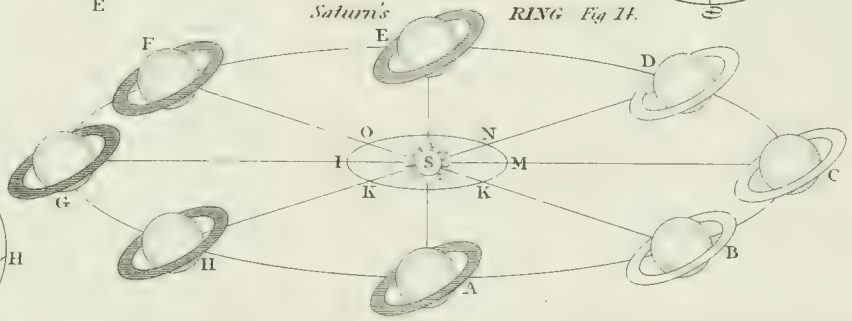
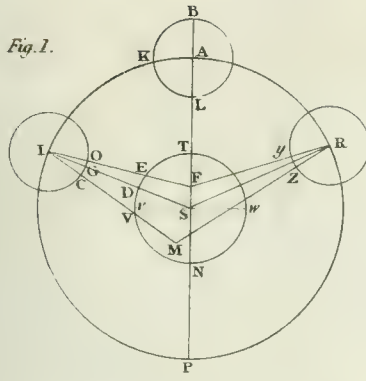


Fig. 15.

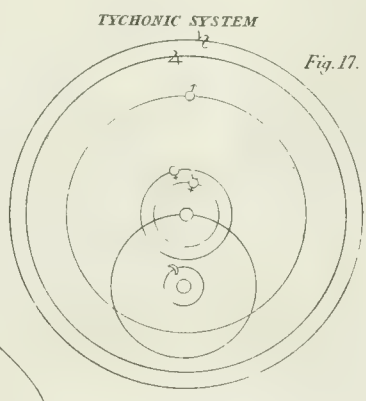
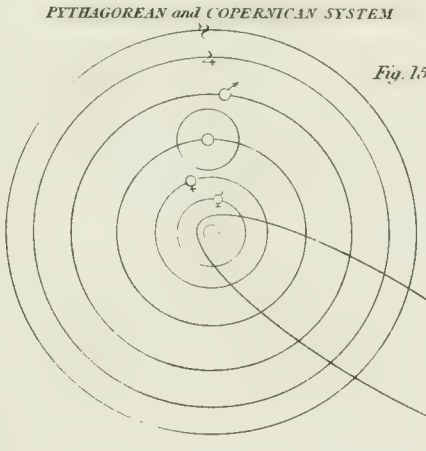
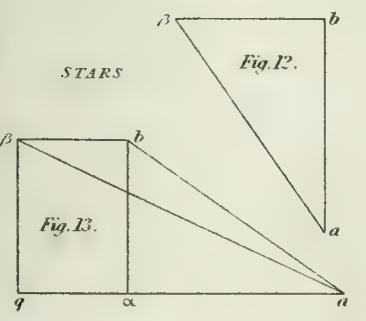
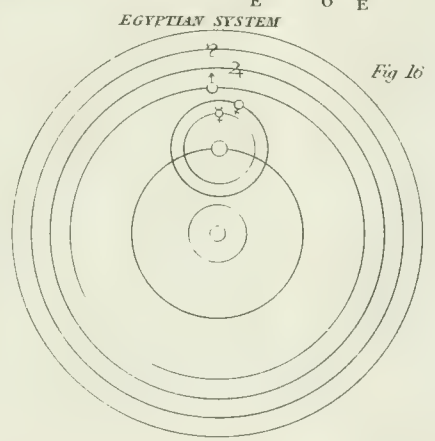
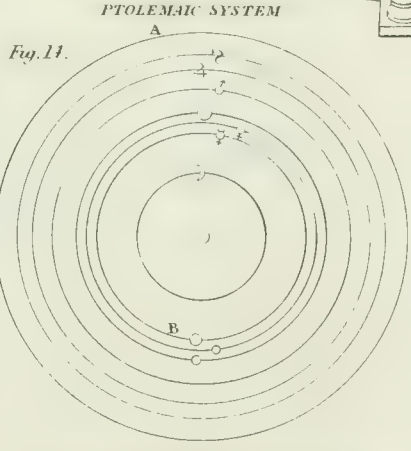
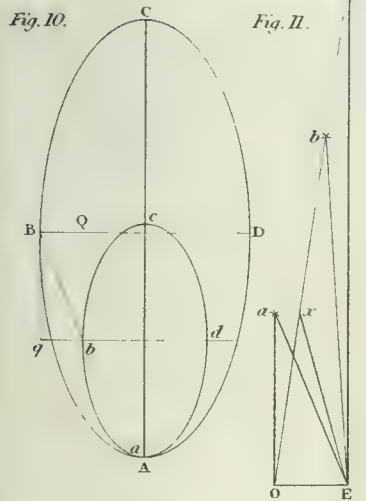
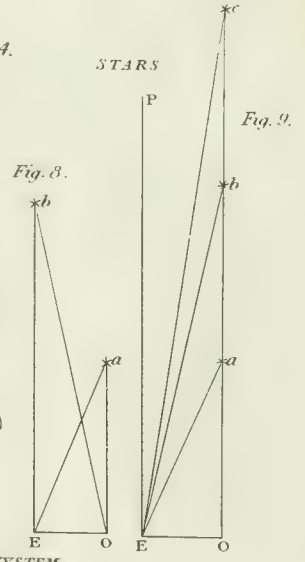
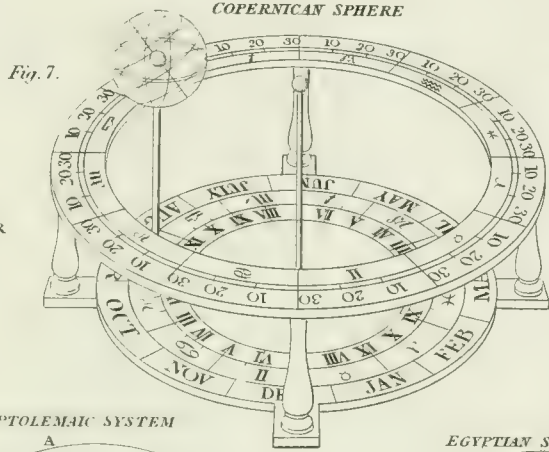
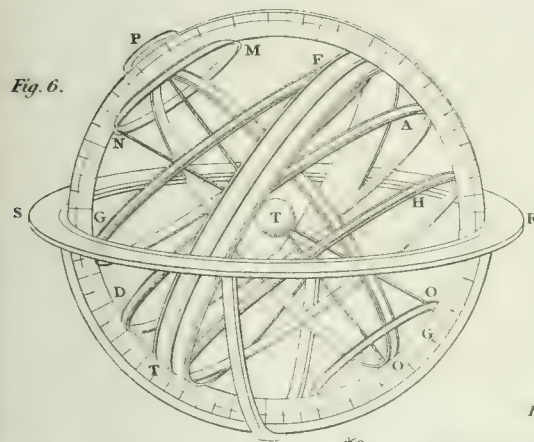
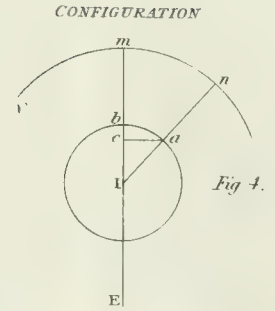
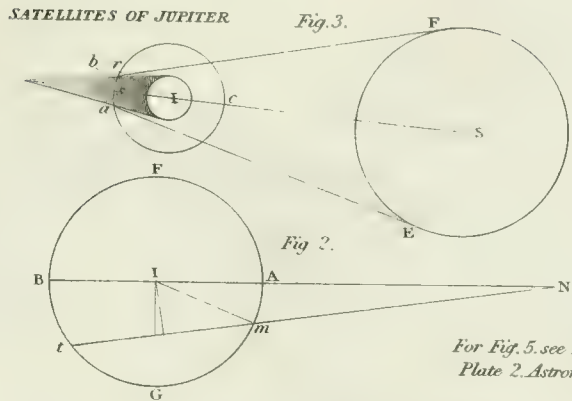
Fig. 16.

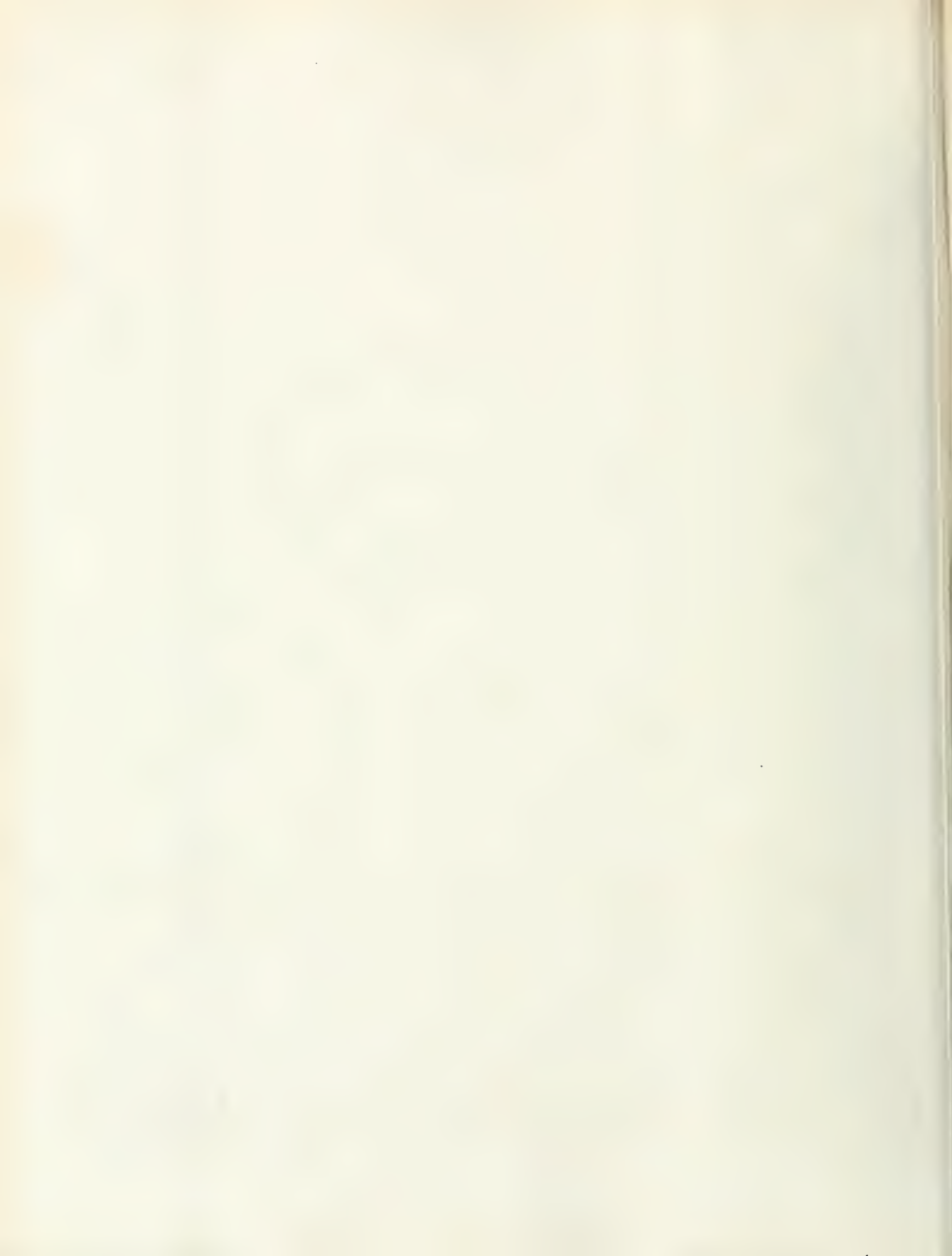






PTOLEMAIC ARMILLARY SPHERE





ASTRONOMY.  
SOLAR SYSTEM

Fig. 1

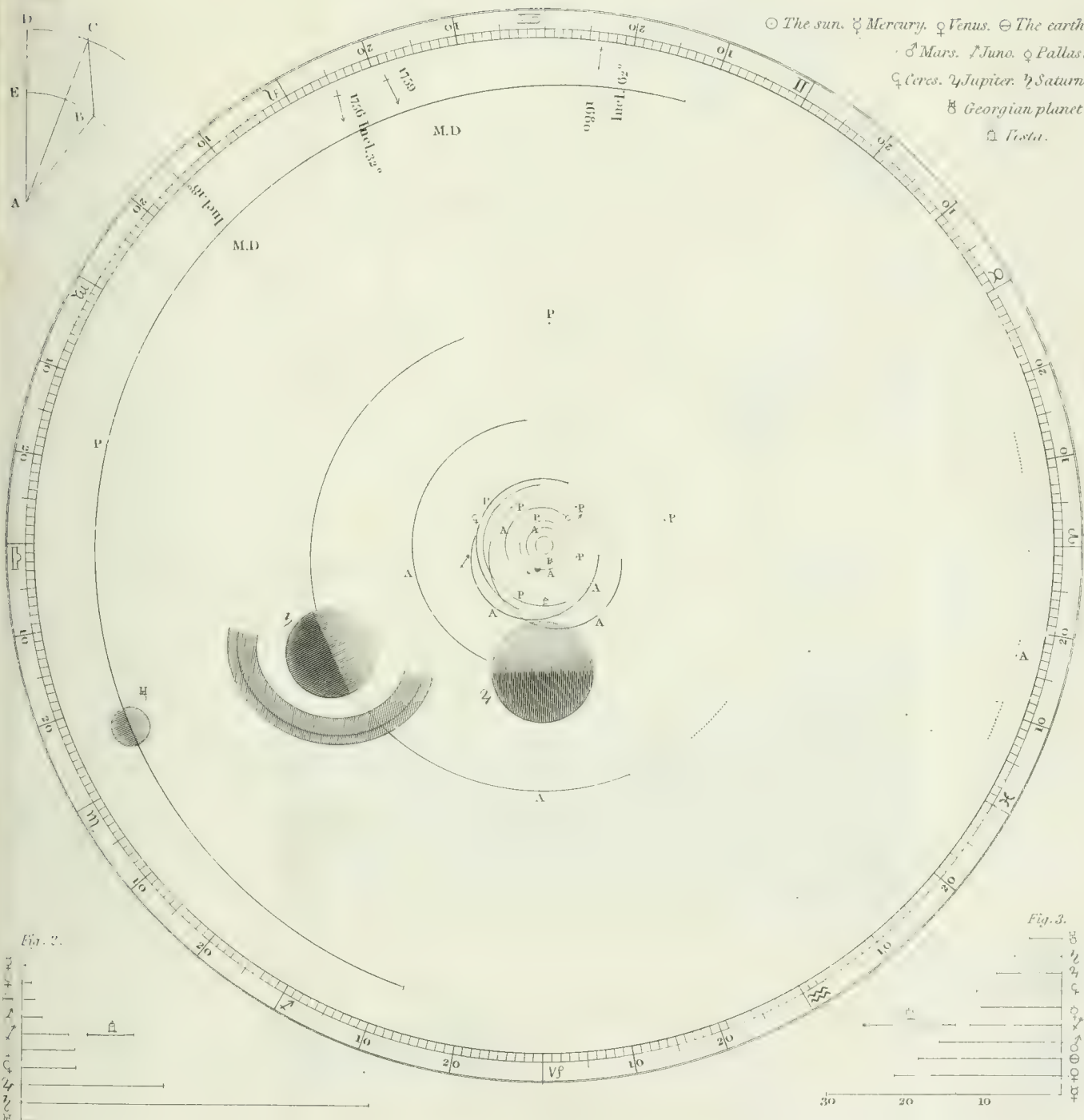
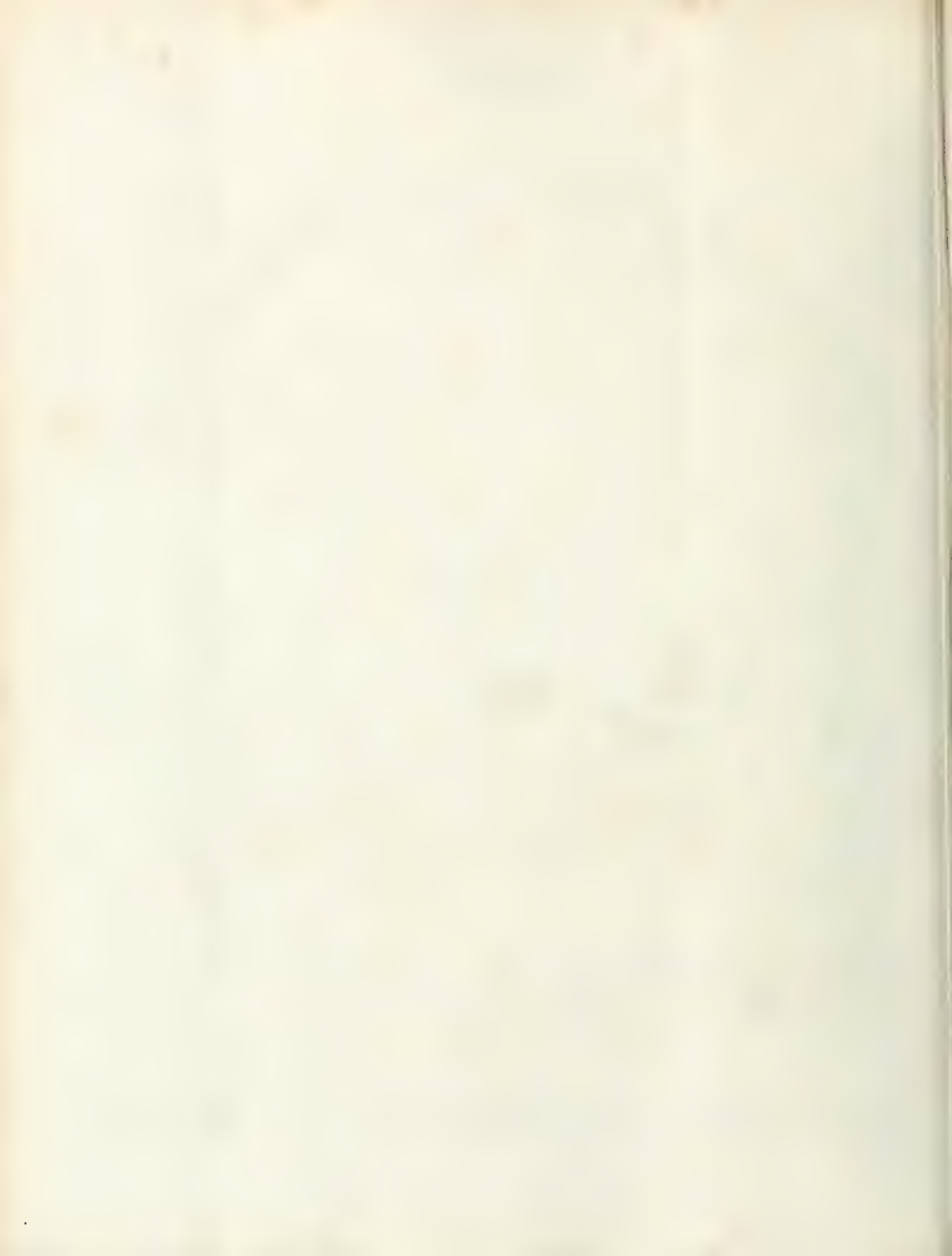


Fig. 2.

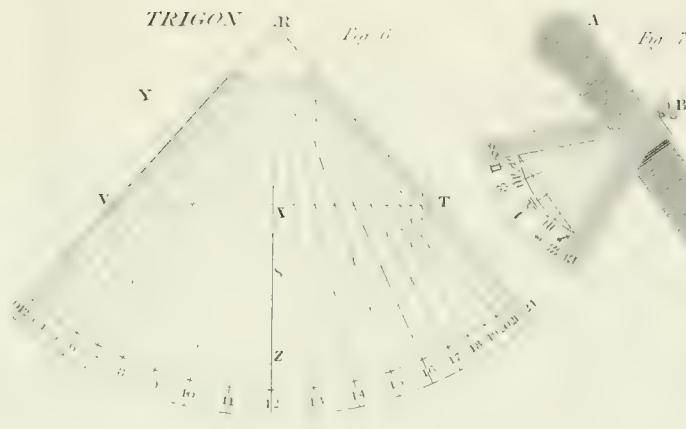
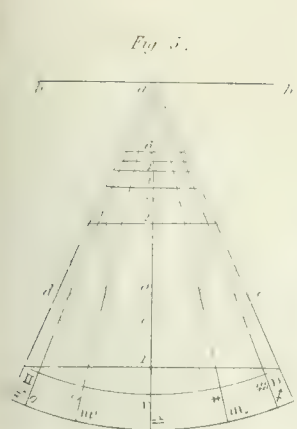
Fig. 3.







TRIGON



VENUS

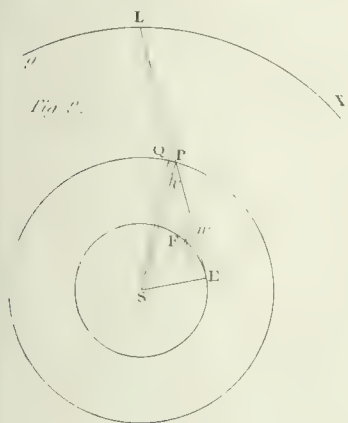
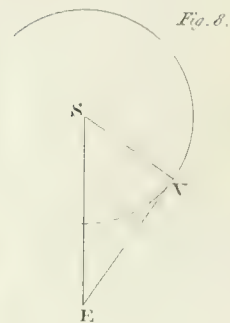


Fig. 10.

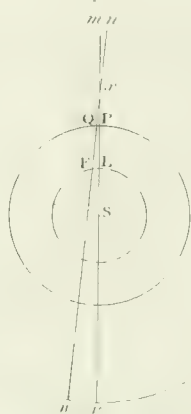
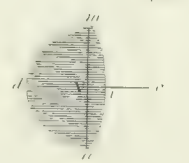
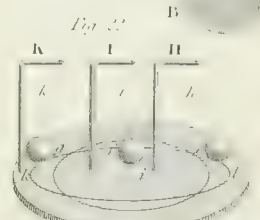
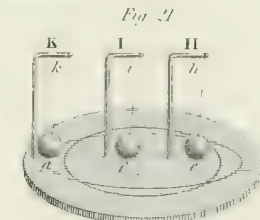
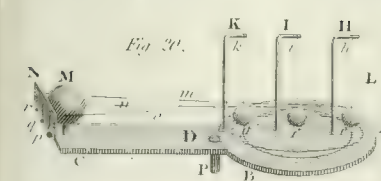
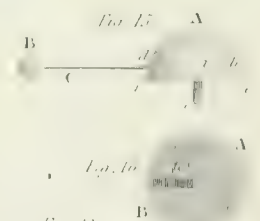
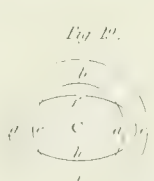
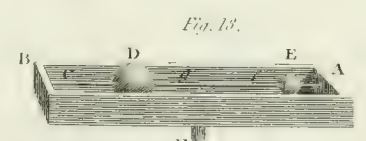
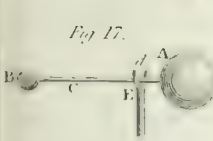
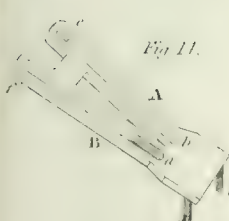
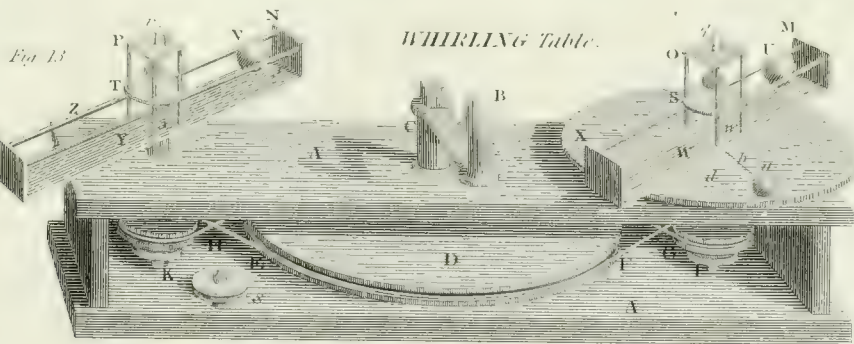
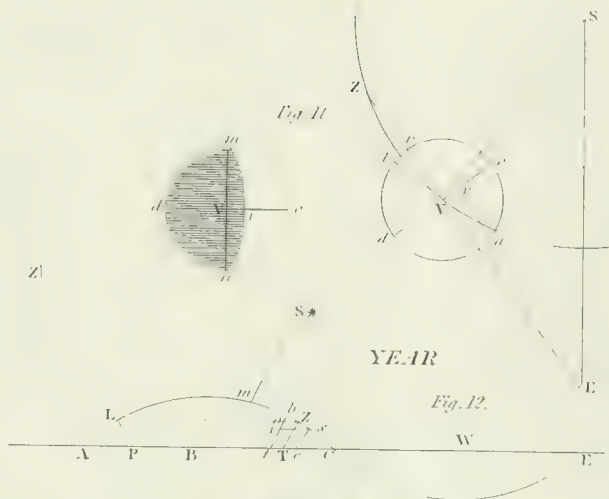


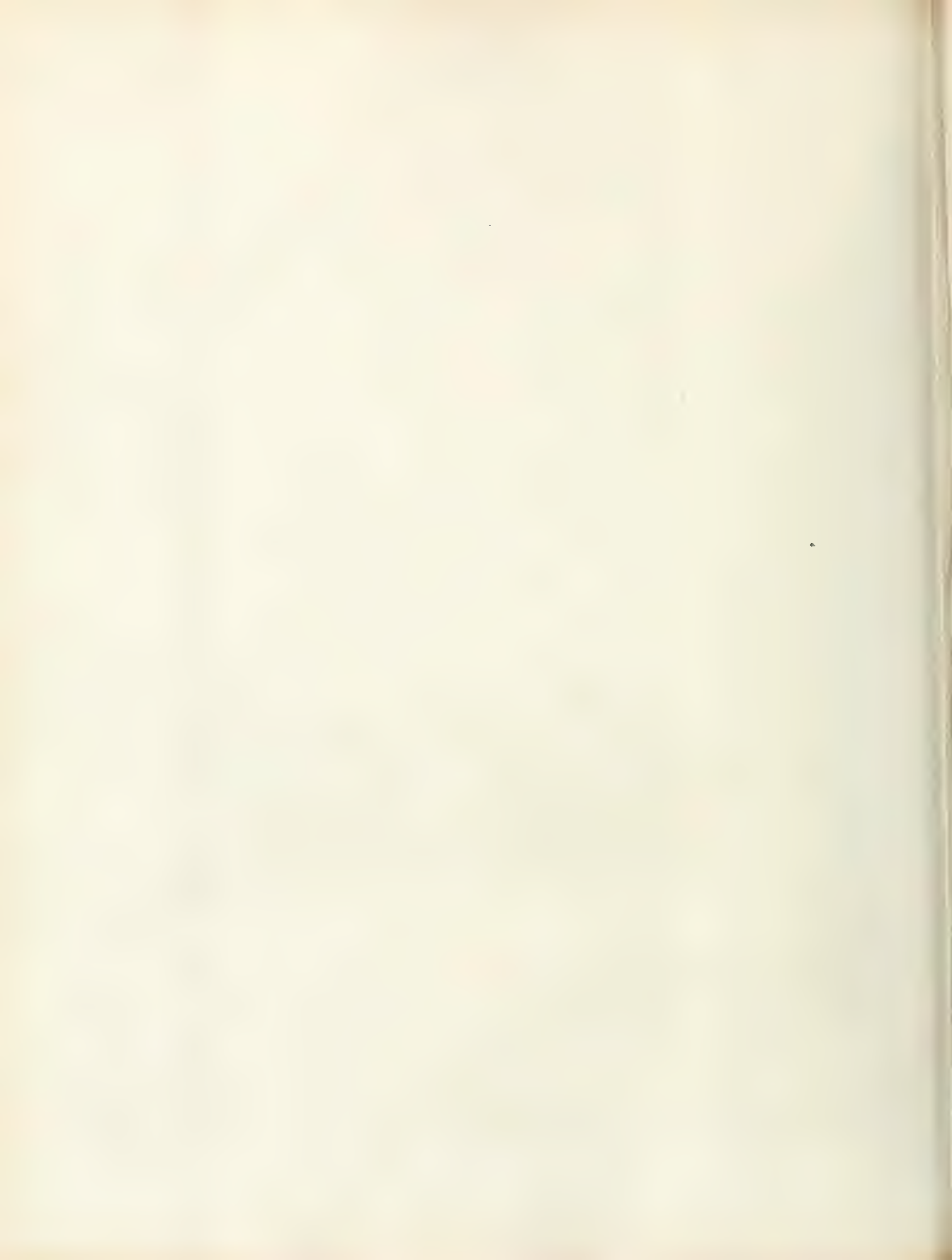
Fig. 11.



YEAR

Fig. 12.





○ } Perih of the Comet in  
 ○ }

\* Nearest approach to the Earth in

○ D° ..... D° ..... D° in

—— Comets whose Courses are

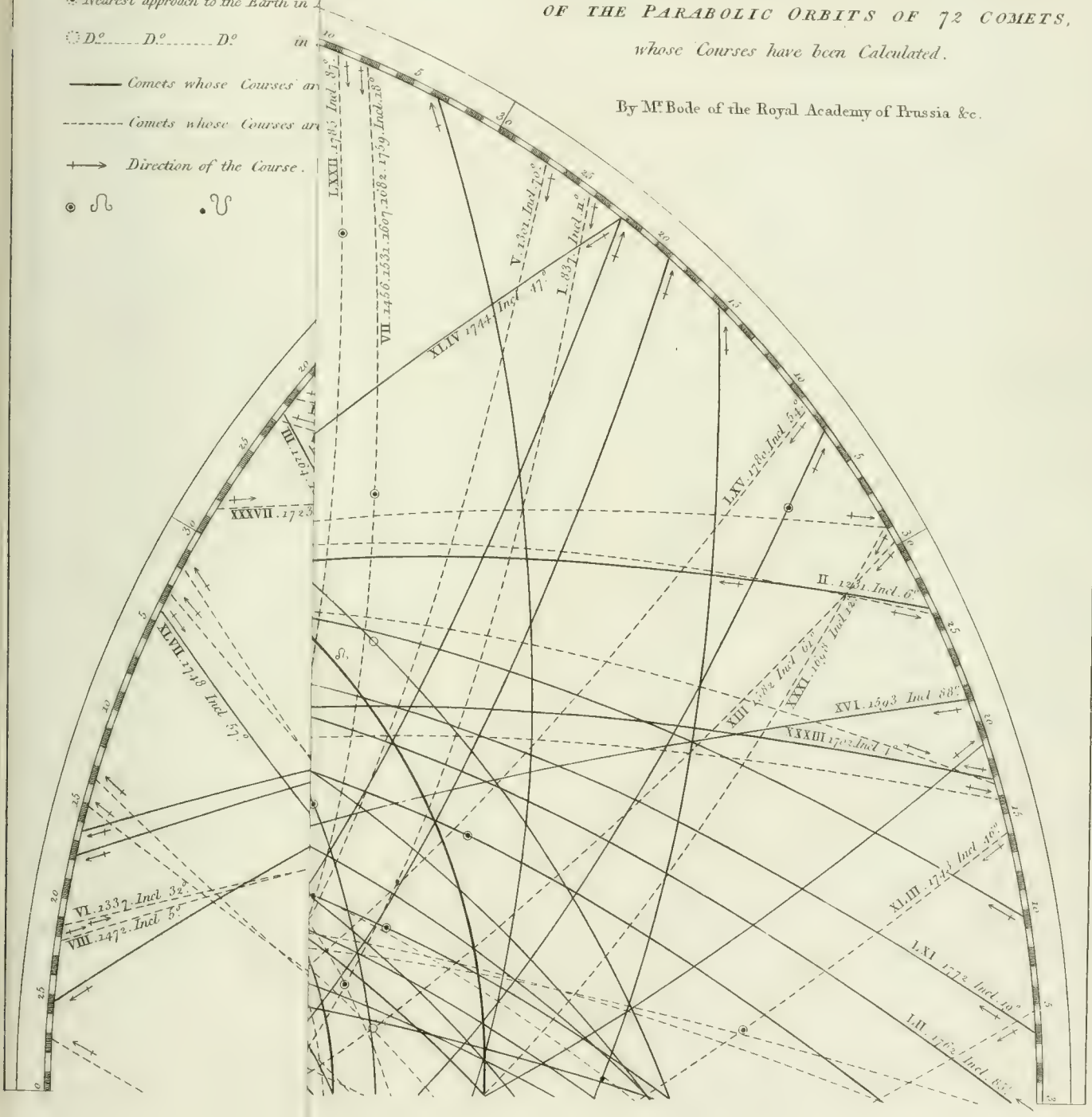
----- Comets whose Courses are

→ Direction of the Course.

○ ∩ ∪

# PROJECTION ON THE PLANE OF THE ECLIPTIC OF THE PARABOLIC ORBITS OF 72 COMETS, whose Courses have been Calculated.

By M<sup>r</sup> Bode of the Royal Academy of Prussia &c.





# ASTRONOMY.

## PROJECTION ON THE PLANE OF THE ECLIPTIC OF THE PARABOLIC ORBITS OF 72 COMETS. whose Courses have been Calculated.

By M<sup>r</sup> Bode of the Royal Academy of Prussia &c.

} Perih of the Comet in } North Latitude.  
} South Latitude.

• Nearest approach to the Earth in North Latitude.

○ D°.....D°.....D°..... in South Latitude.

— Comets whose Courses are direct.

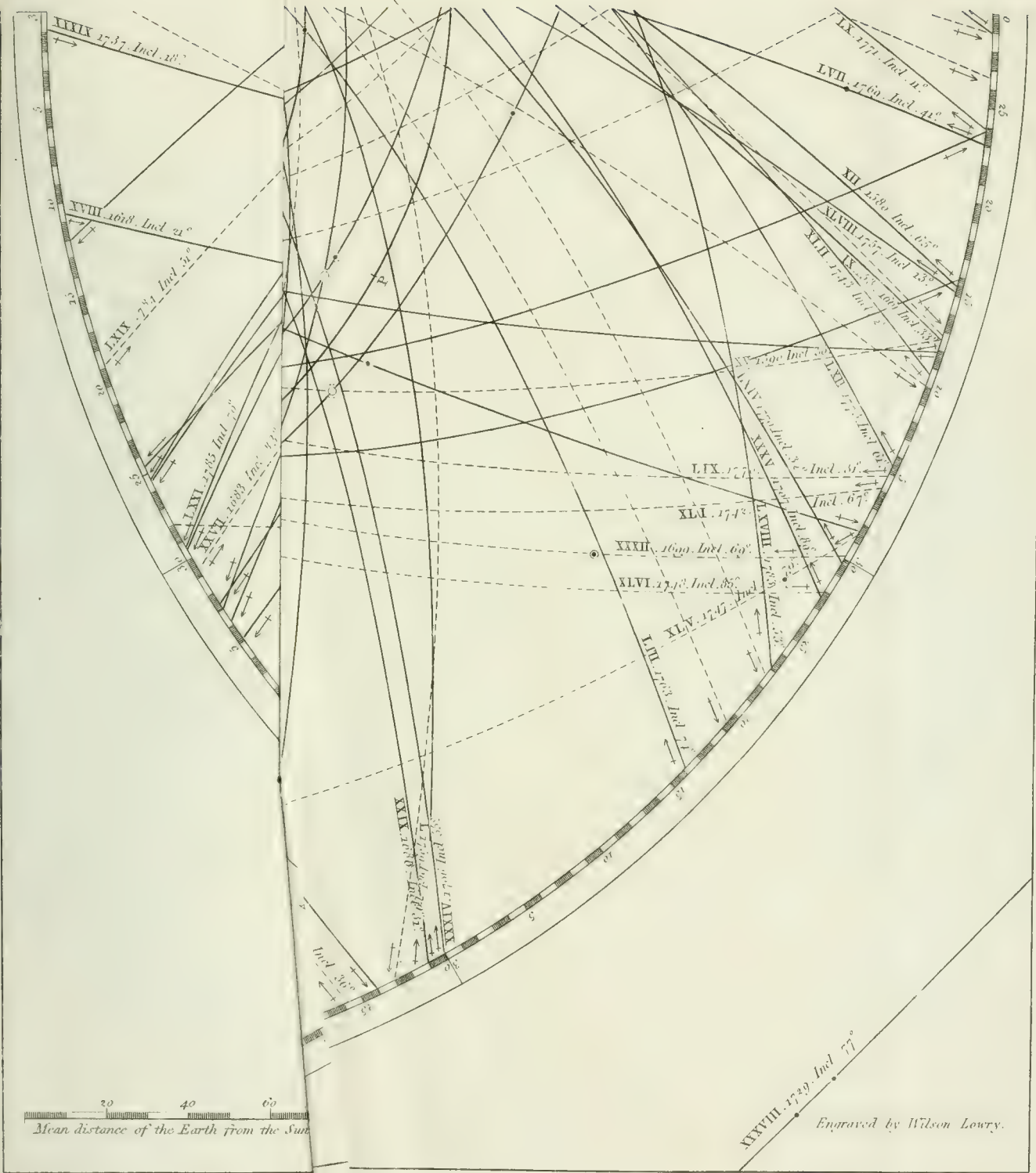
- - - Comets whose Courses are retrograd.

→ Direction of the Course.

○ ∩ ∪

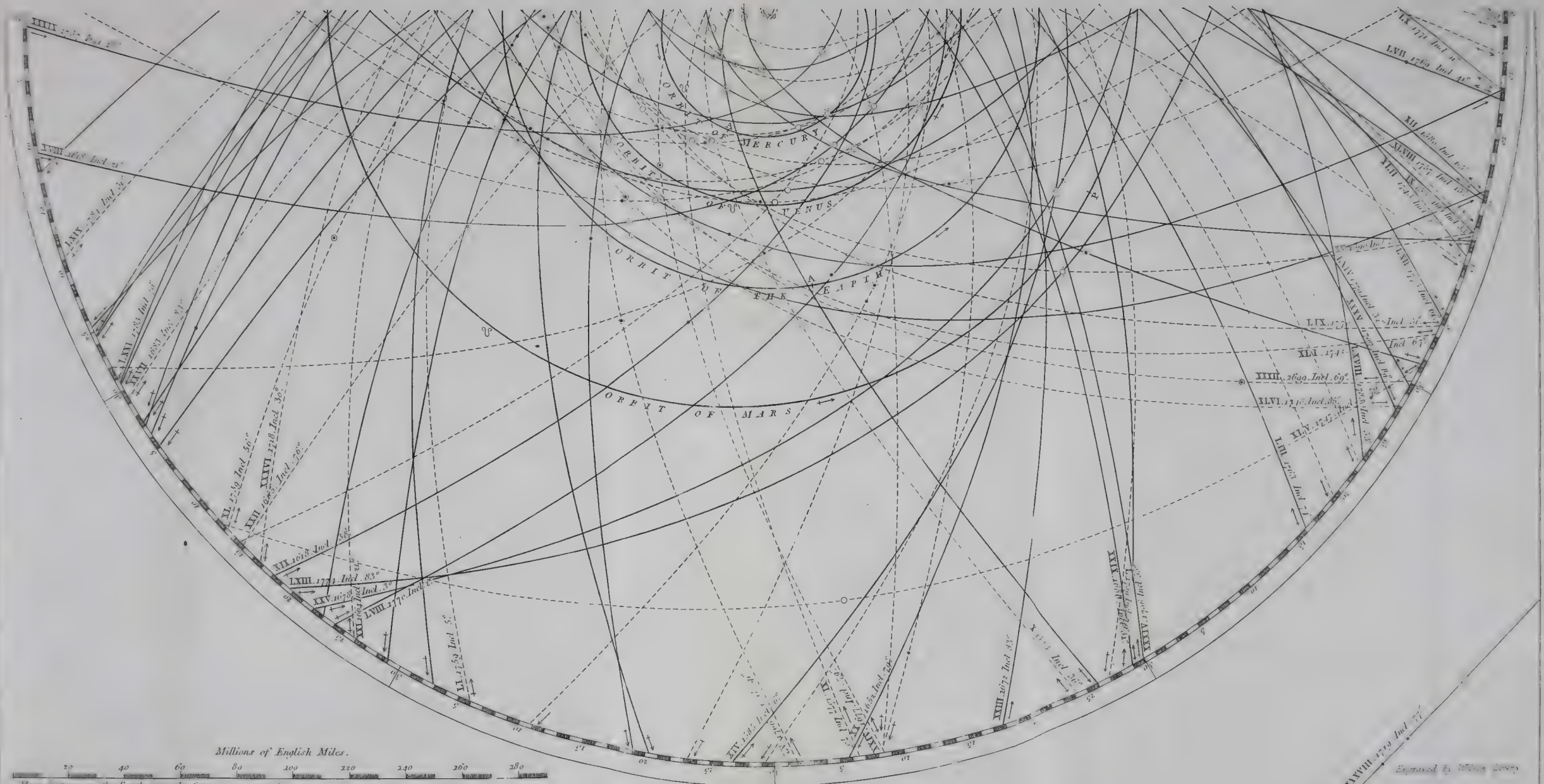




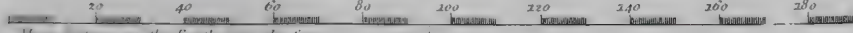


Mean distance of the Earth from the Sun

Engraved by Wilson Lowry.



Millions of English Miles.



Distance of the Earth from the Sun.

Published as the Act Directs, May 1826, by Longman & Rees, Paternoster Row

Designed by William Dawkins



ASTRONOMY.

NORTHERN HEMISPHERE







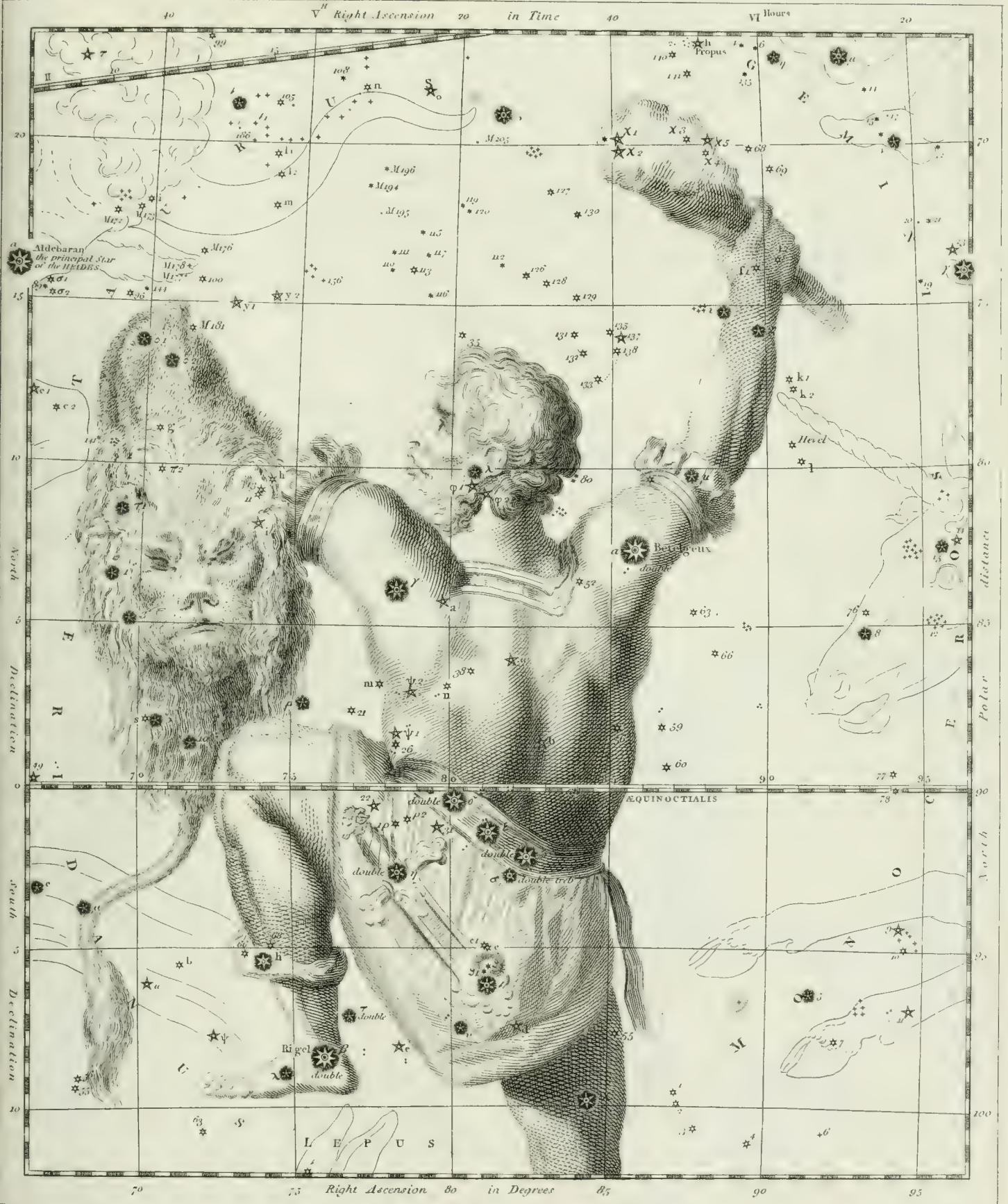
SOUTHERN HEMISPHERE.







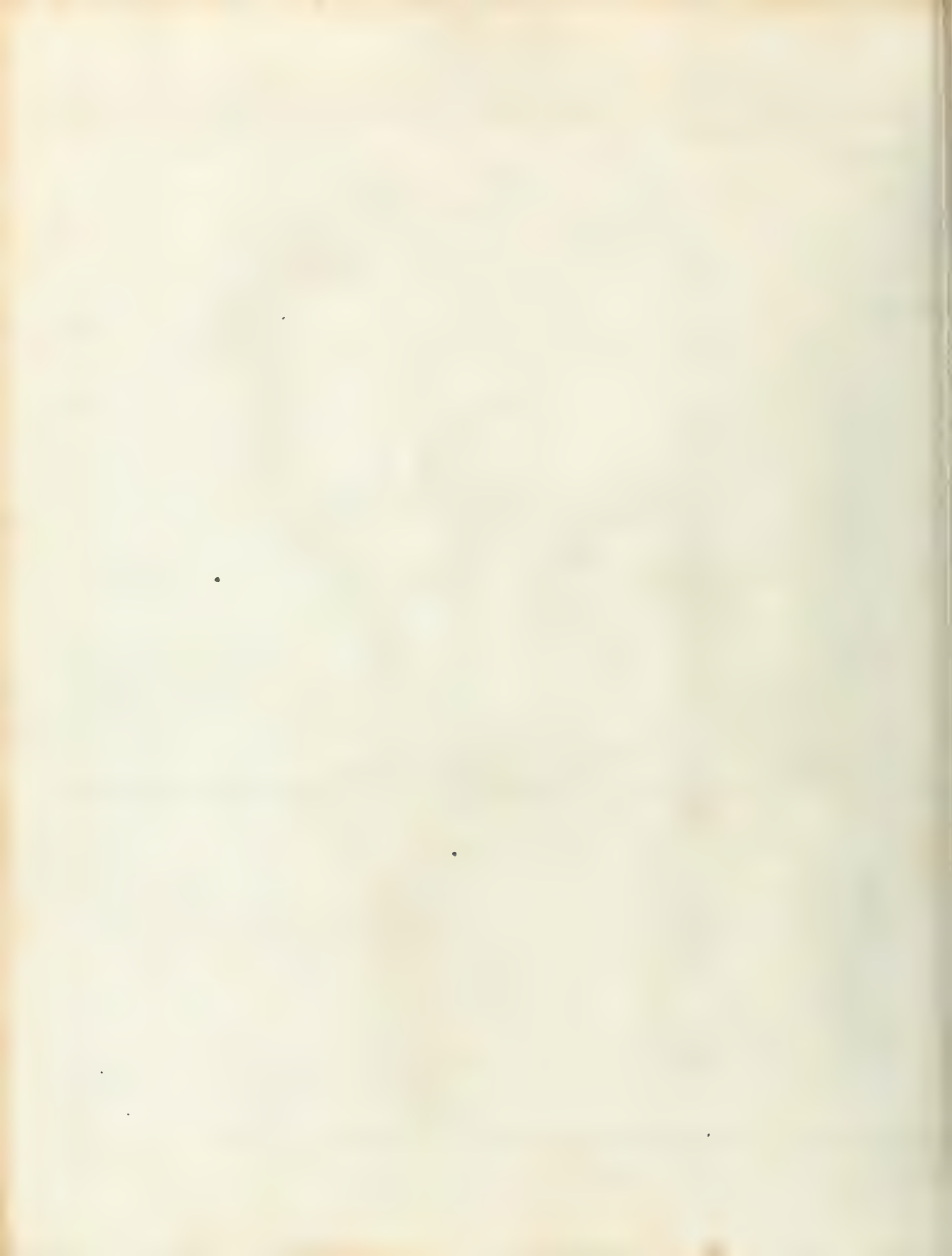
# CONSTELLATION. ORION.



L. Robert del.

Milton fec.

double
Nebula.
Clust.





# CONSTELLATIONS.

URSA MAJOR and URSA MINOR

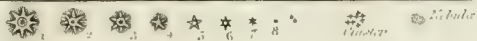
projected by right Ascension and Declination — corrected to the beginning of the Year 1808.

PLATE II



Right Ascension in Degrees and Minutes

The numbers, letters & Greek Characters refer to the British Catalogue.



H. to Hevelius's, C.H. to Cherschels.

Published as the Act direct, Feb. 21. 1808 by Longman Hurst, Roe & Co. Printers to the Royal Society.





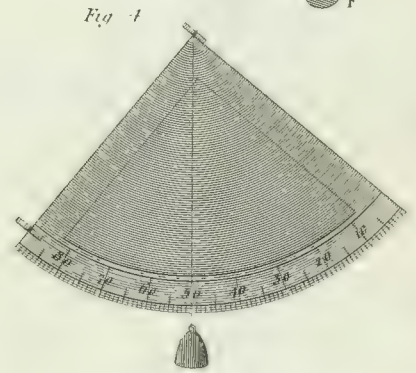
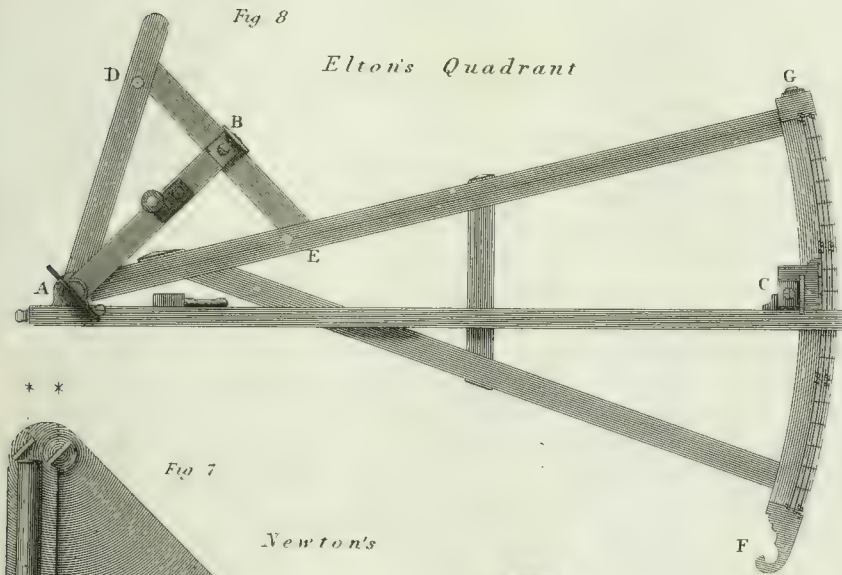
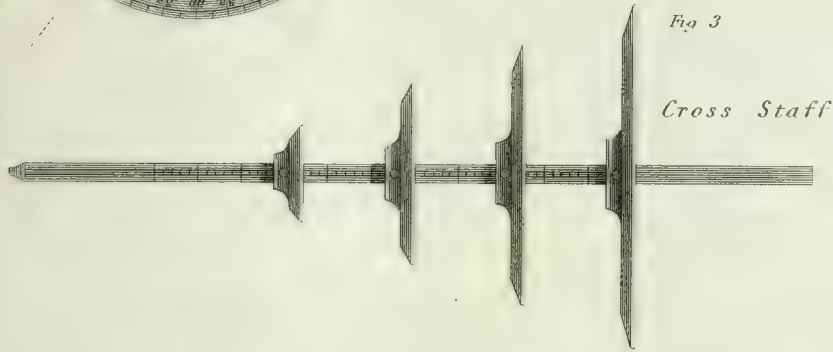
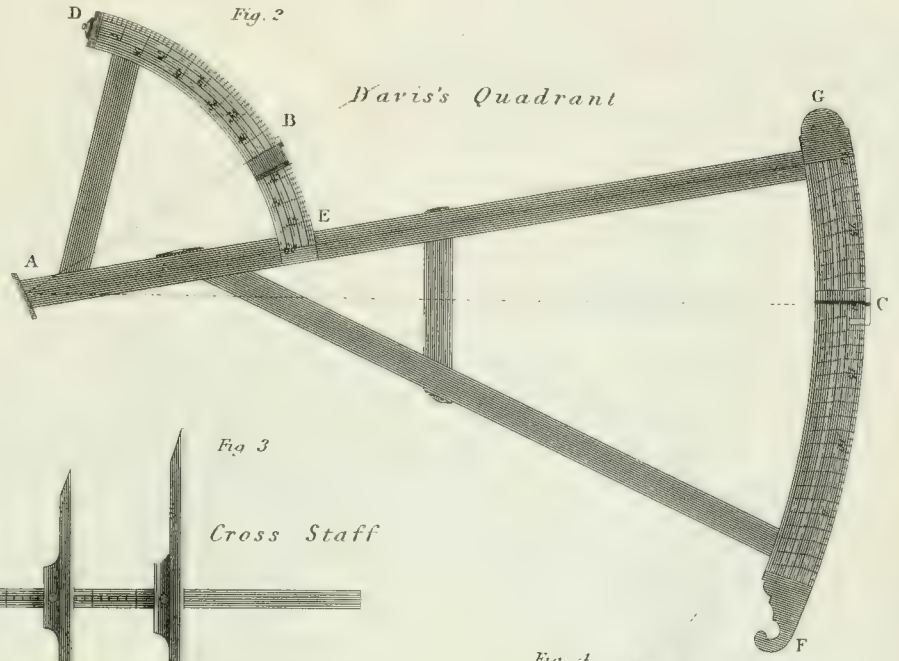
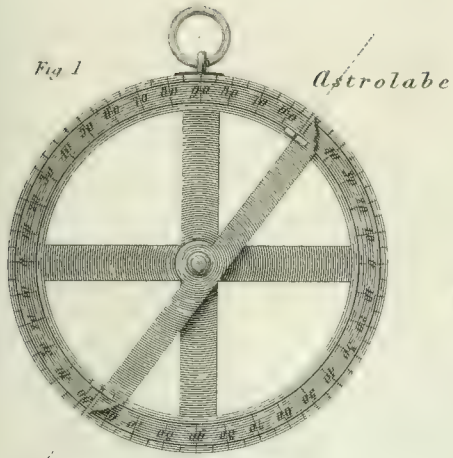
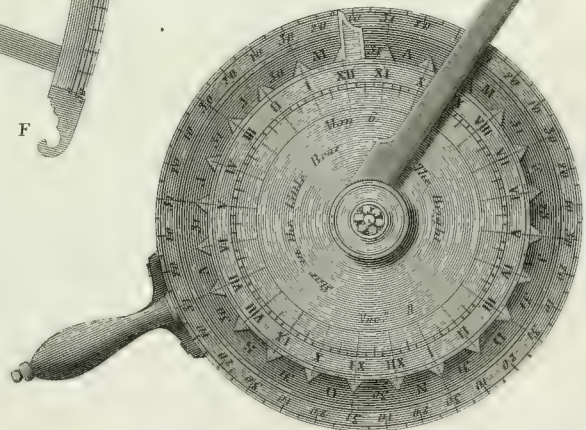
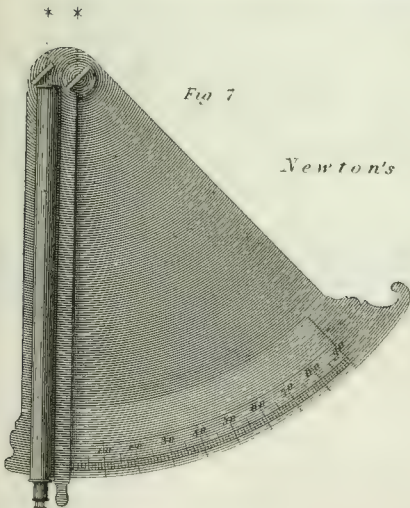


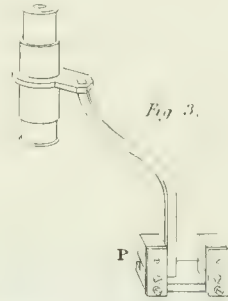
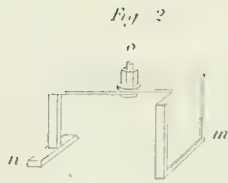
Fig. 6.  
Nocturnal or  
Star Dial





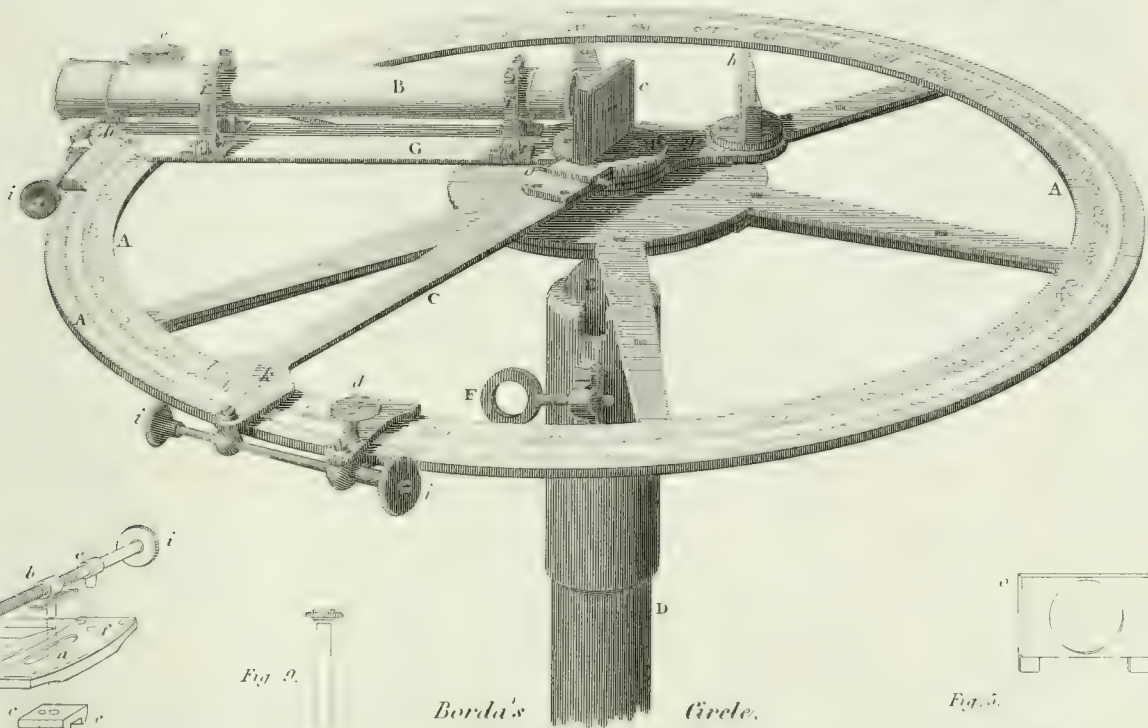


CIRCLE.



Mayer's Circle.

Fig. 1.



Borda's Circle.

Fig. 4.

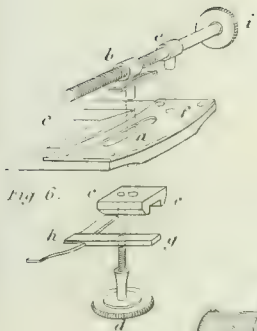
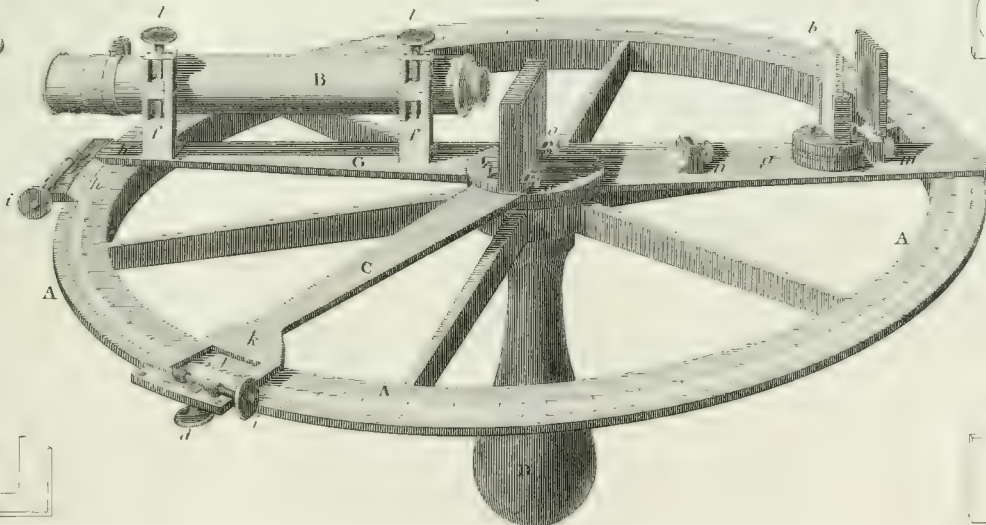


Fig. 6.

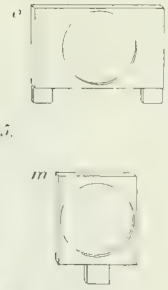
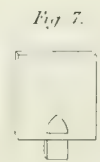
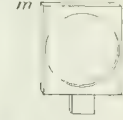


Fig. 7.





ASTRONOMICAL INSTRUMENTS.  
*The English REFLECTING CIRCLE by Troughton.*

PLATE III.

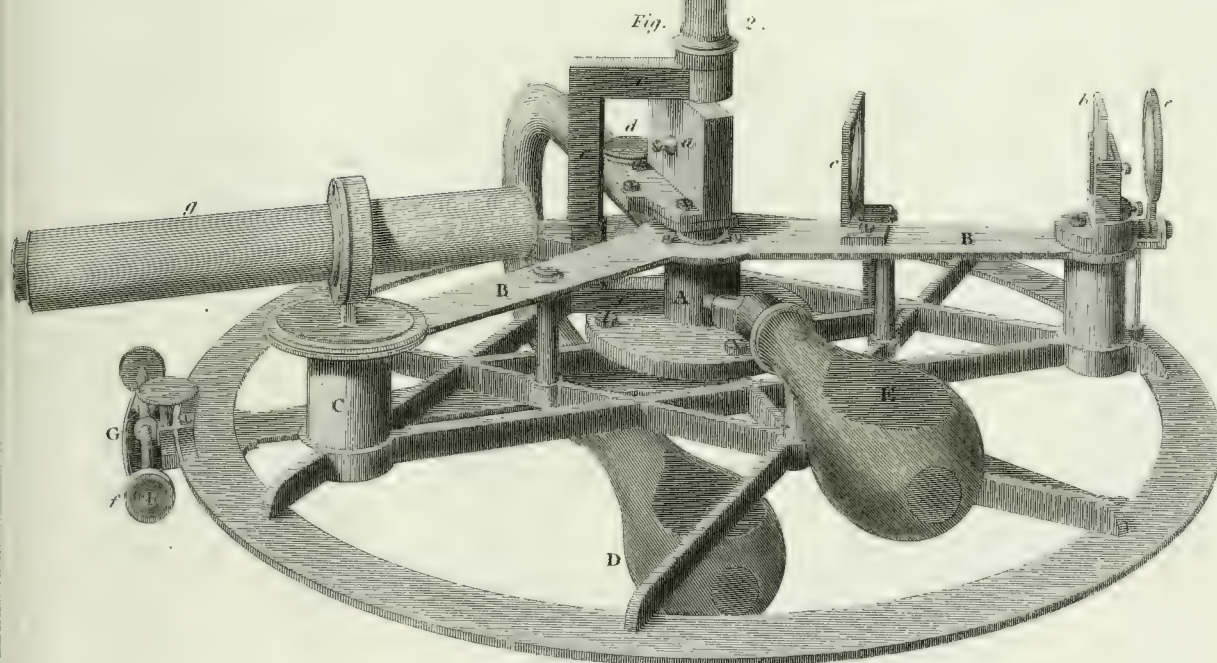
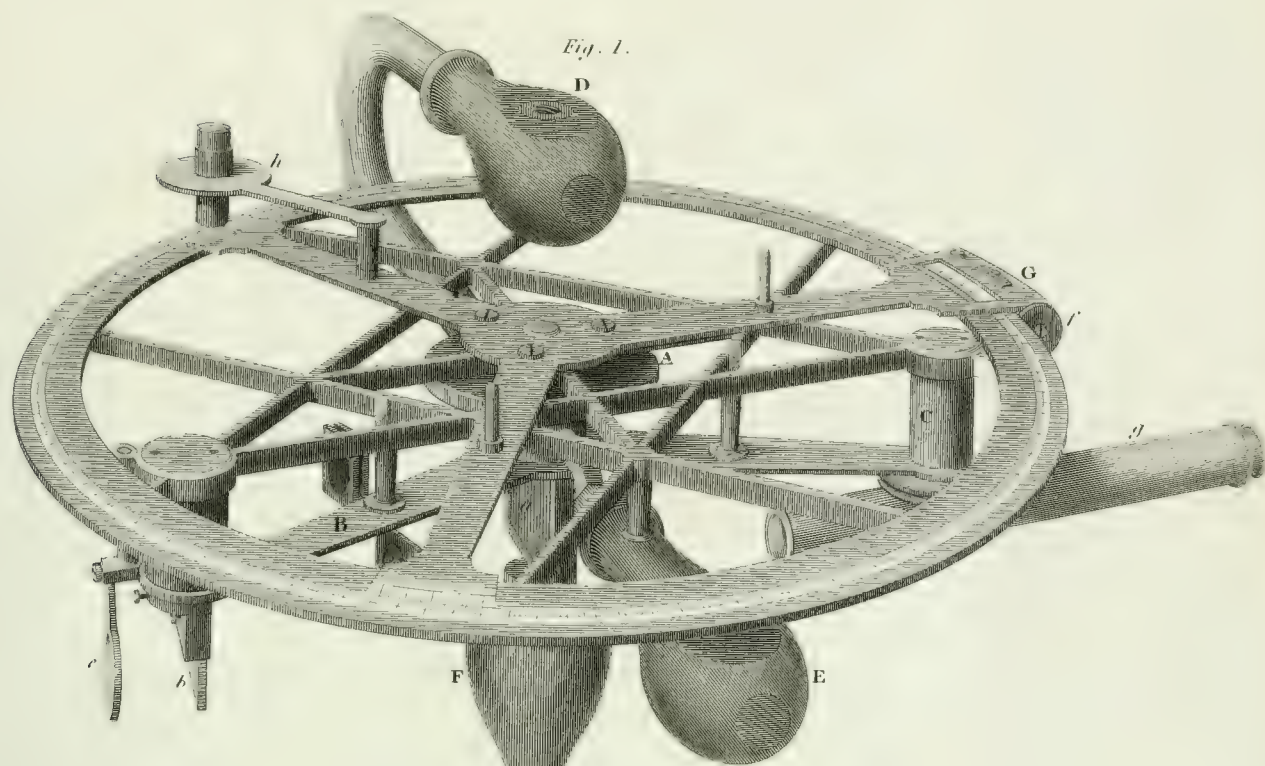






Fig. 1.

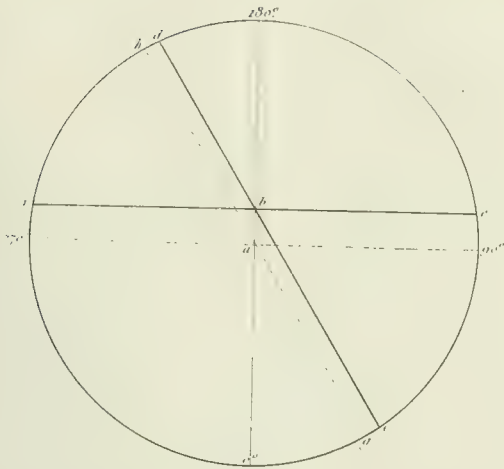


Fig. 2.

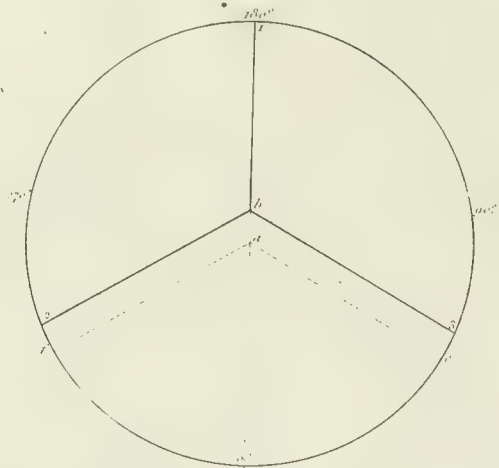


Fig. 3.

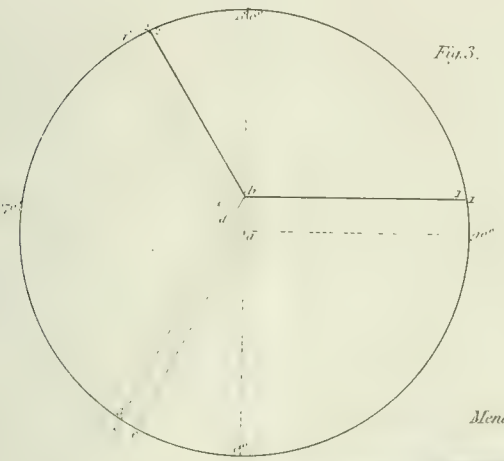
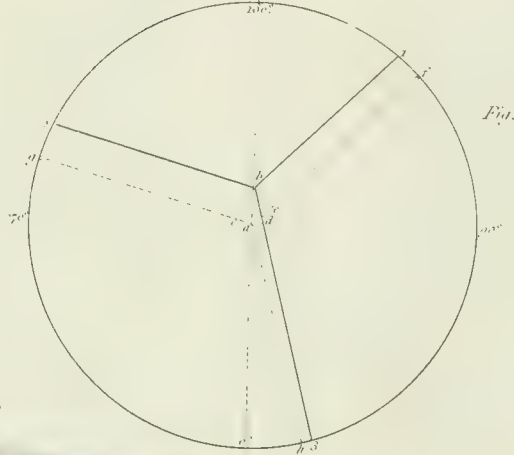
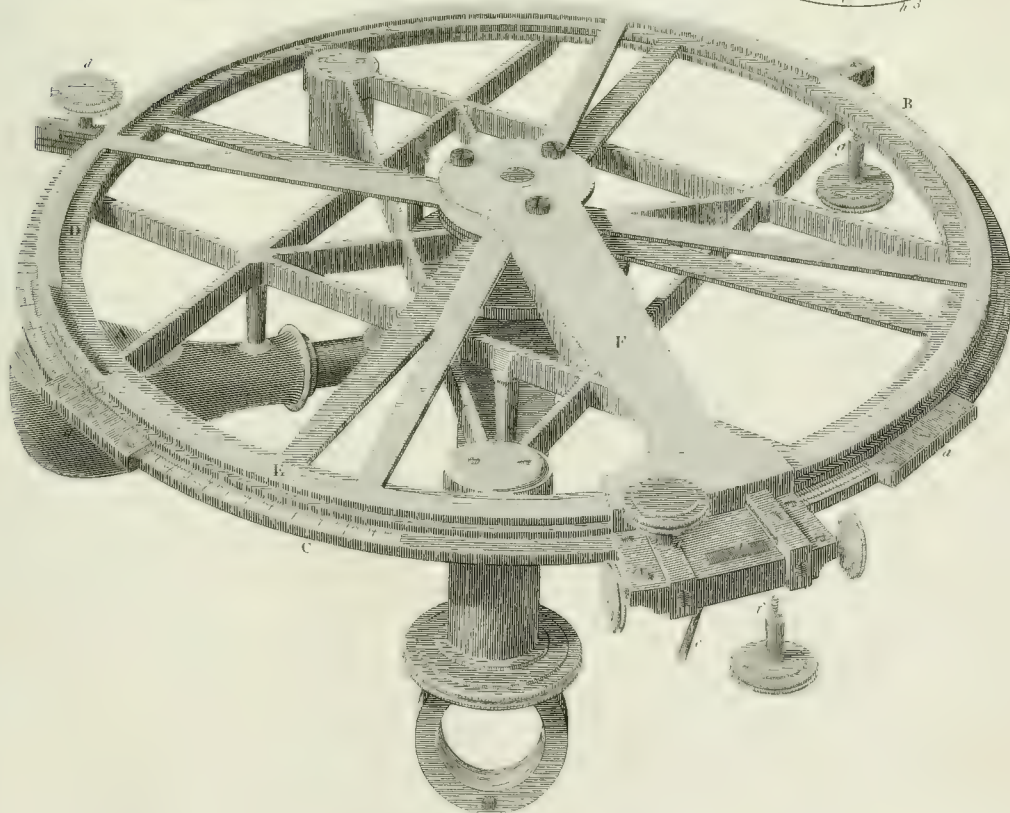


Fig. 4.



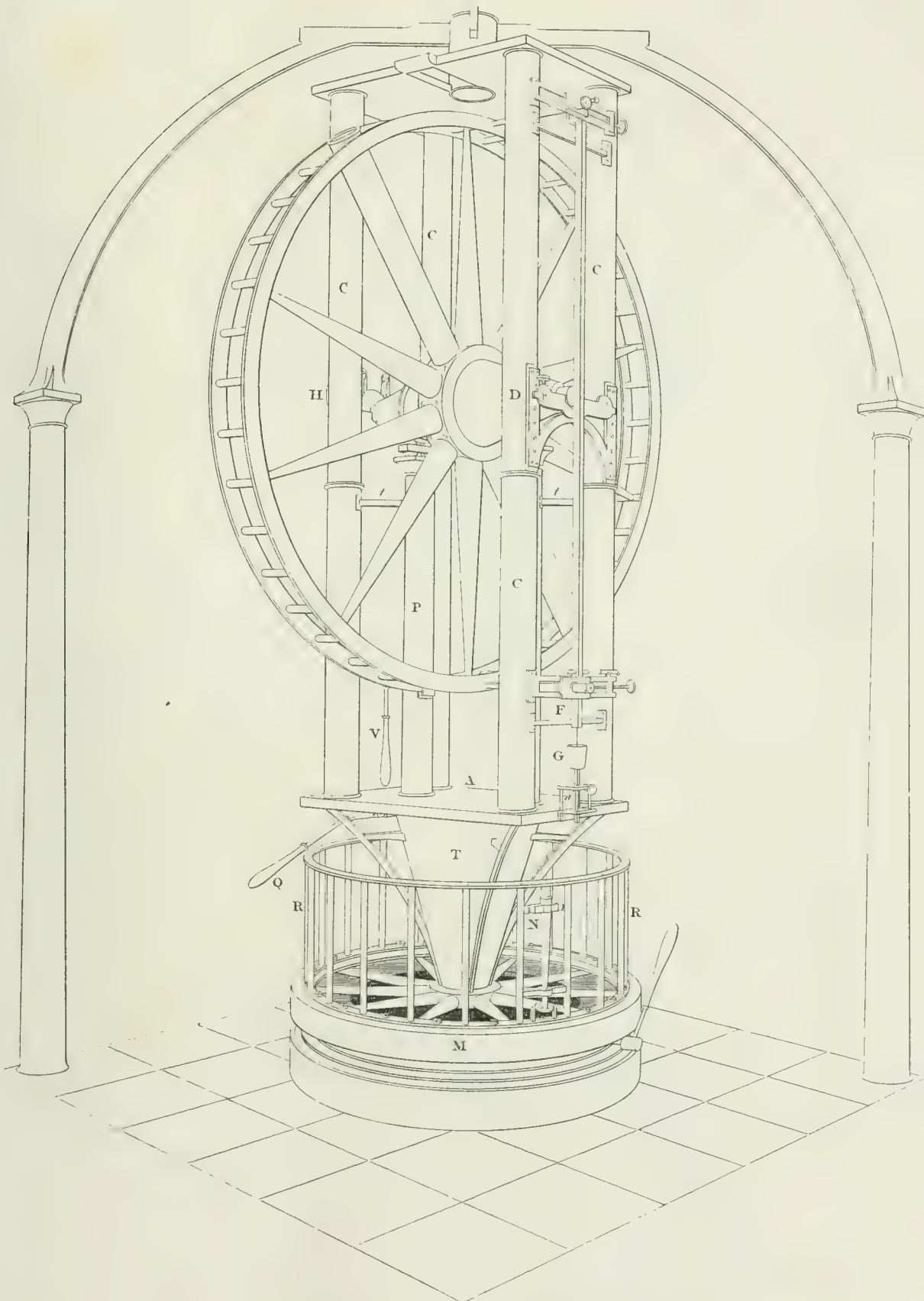
Mendoza's Circle Fig. 5.





ASTRONOMICAL INSTRUMENTS.  
*Ramsden's, CIRCLE.*

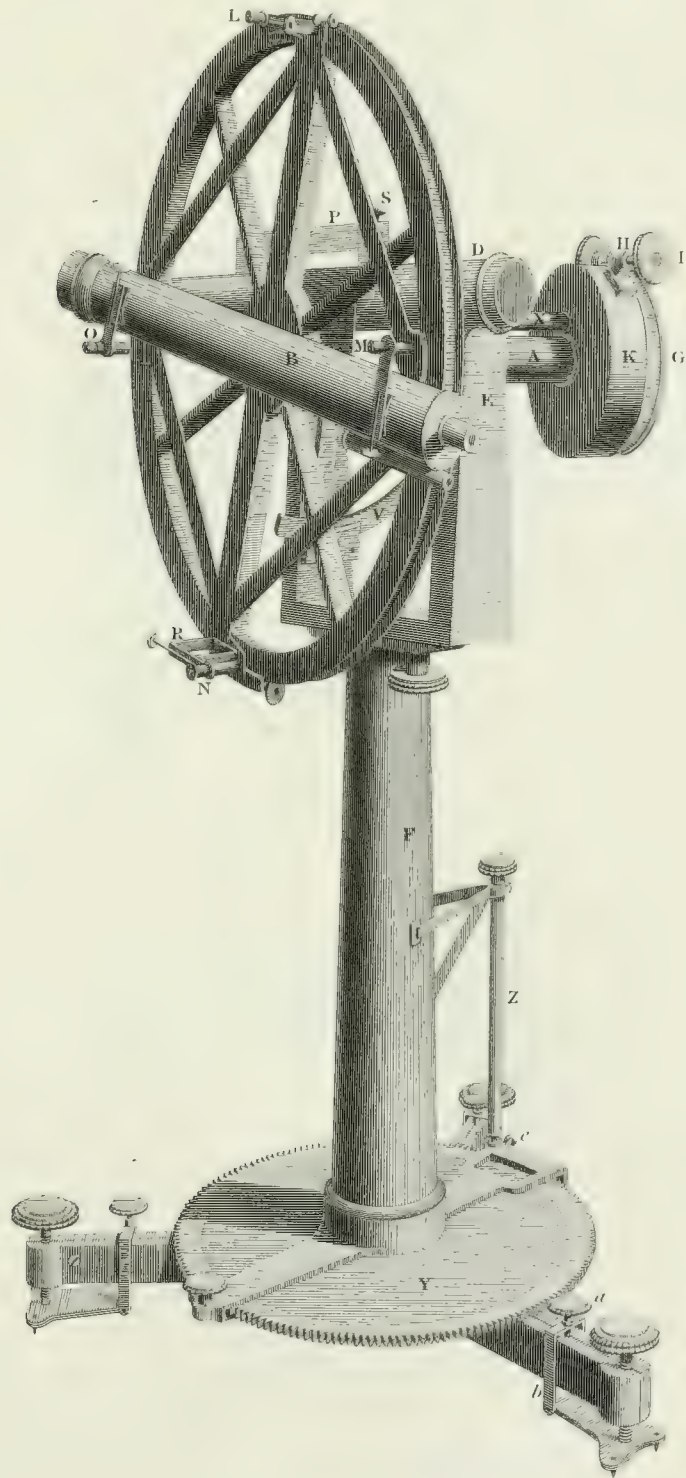
PLATE V.





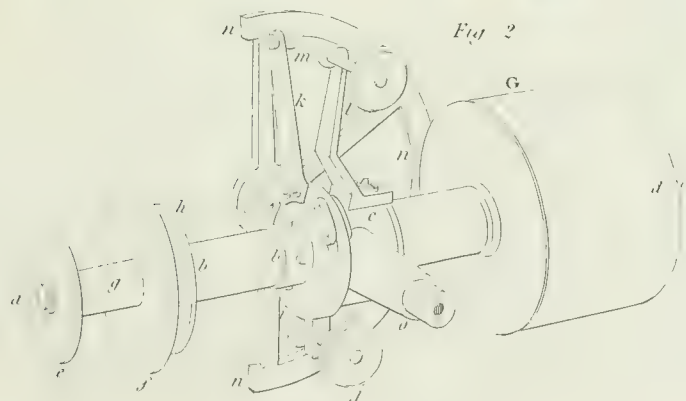
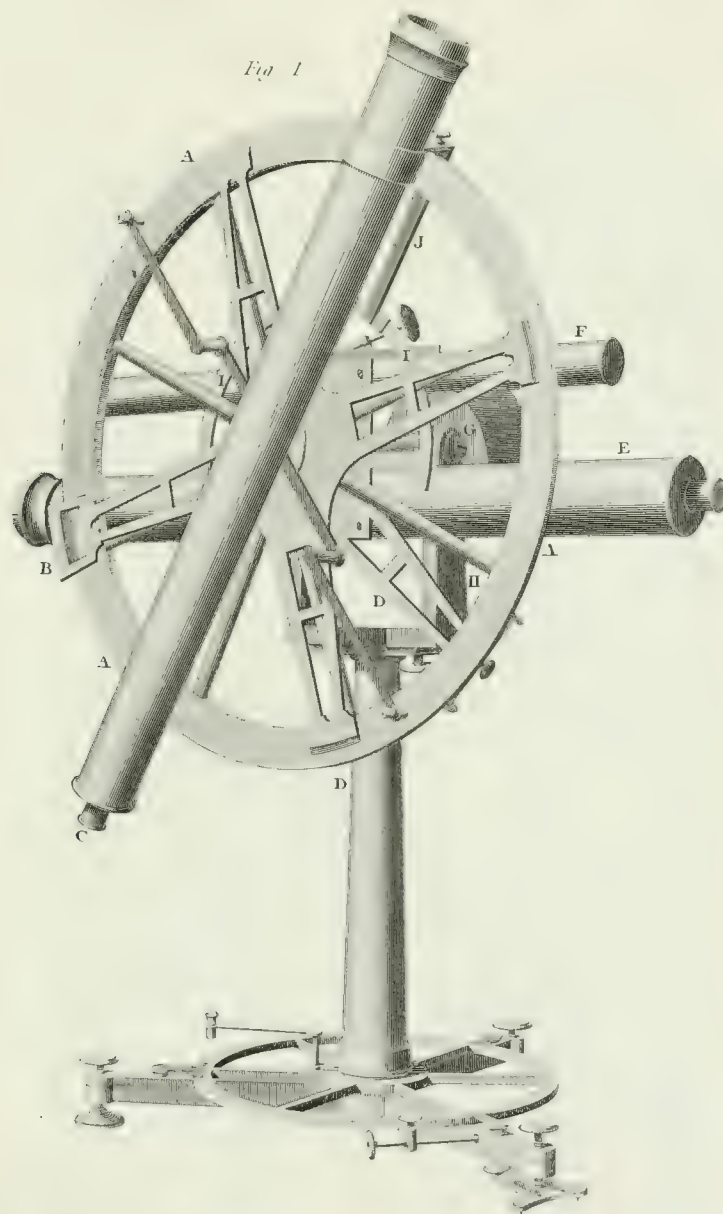


*Borda's repeating circle without reflection.*





The Repeating CIRCLE without reflection by Troughton.





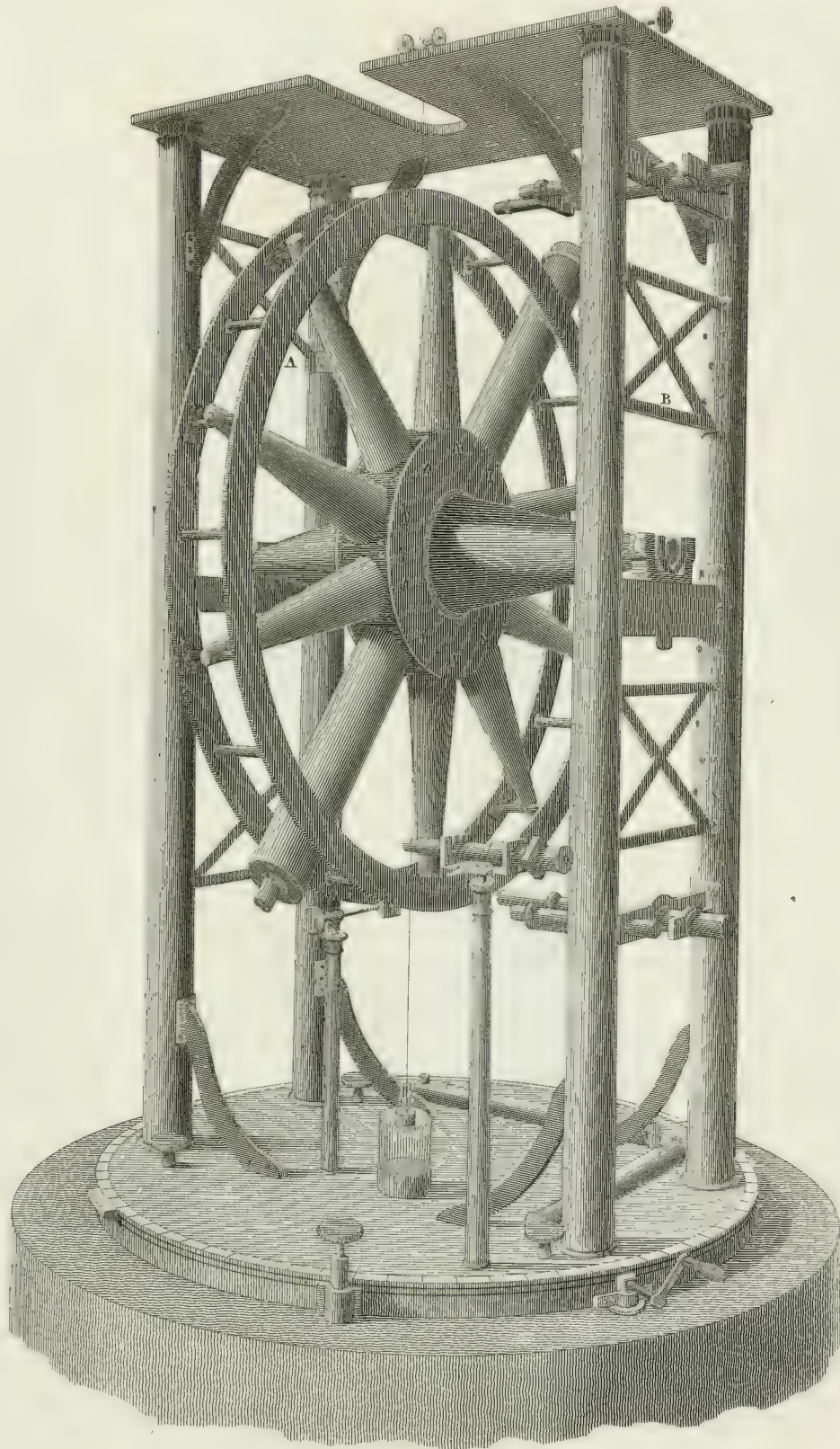


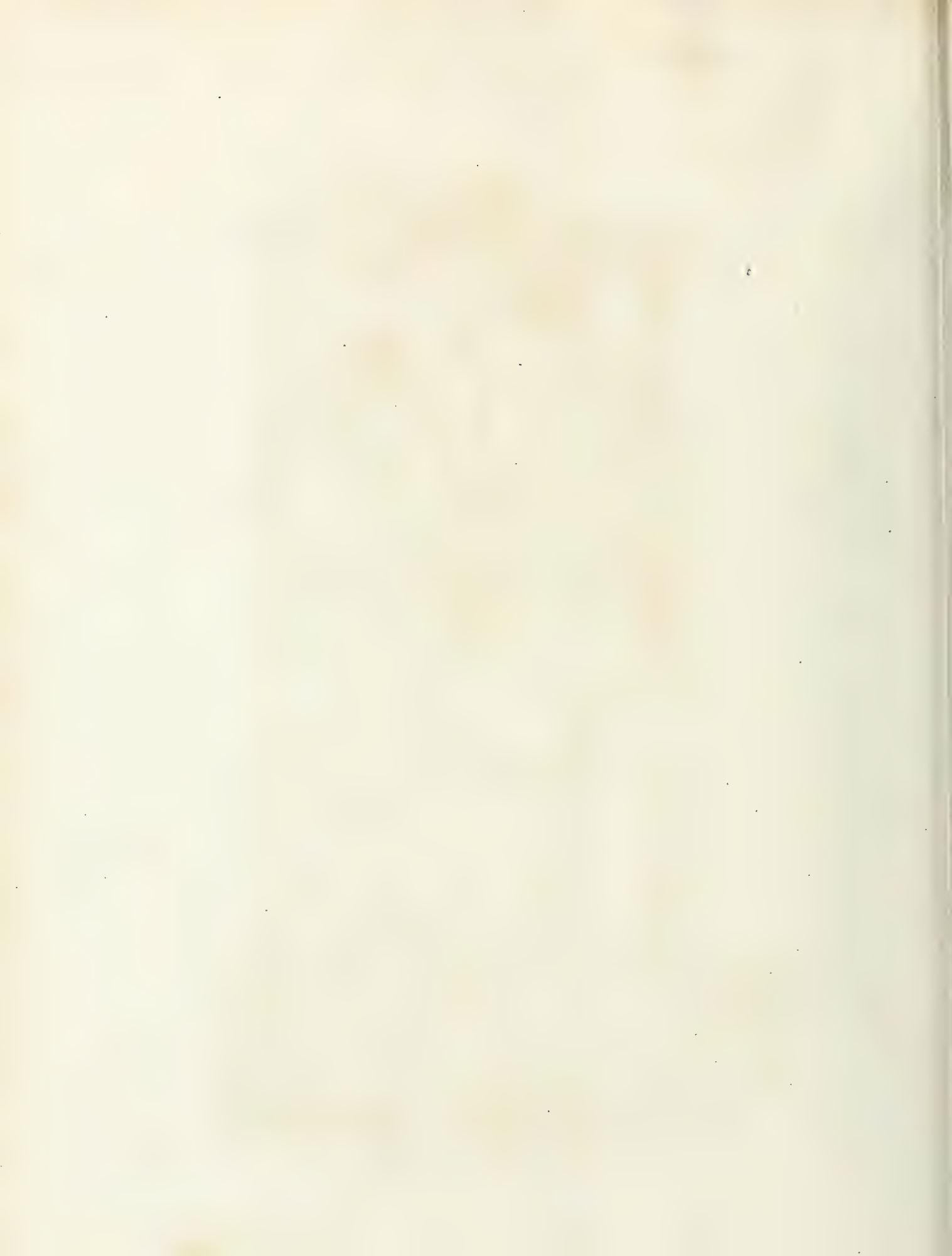
ASTRONOMICAL INSTRUMENTS.

PLATE VIII.

CIRCLE

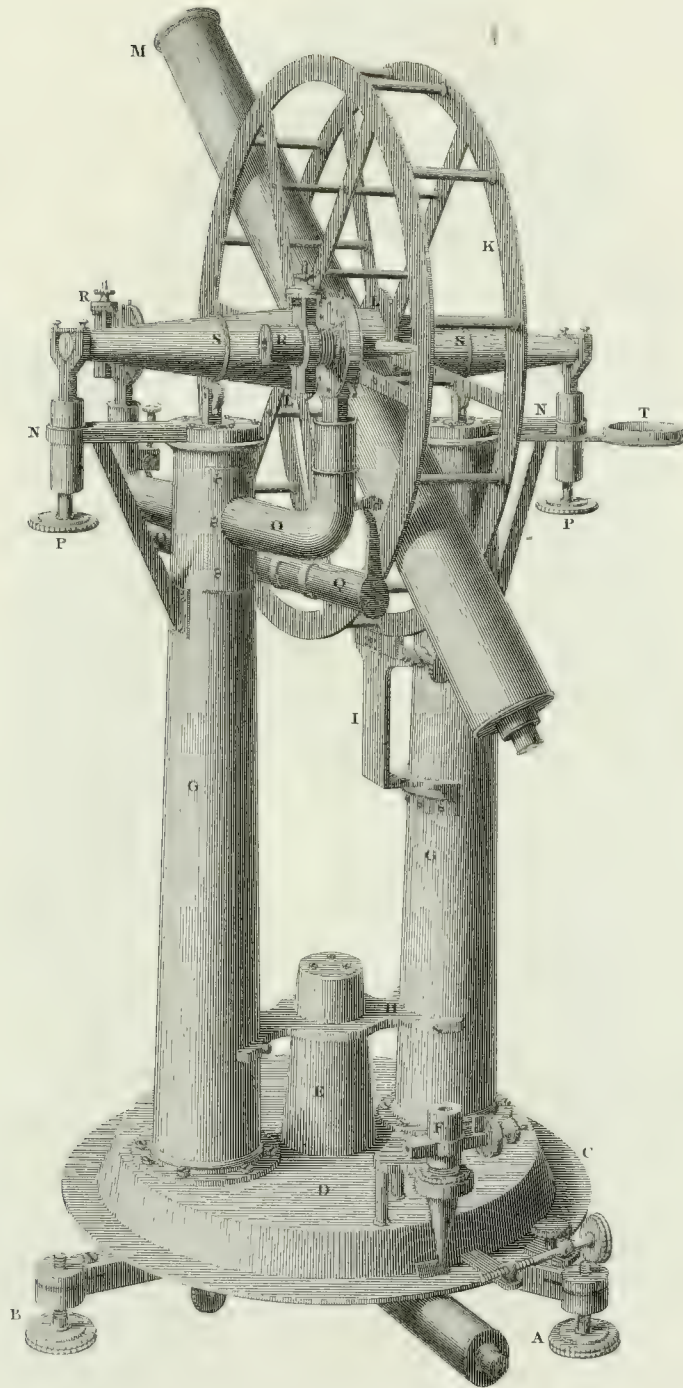
by the Rev<sup>d</sup> Francis Woollaston.





ASTRONOMICAL INSTRUMENTS.

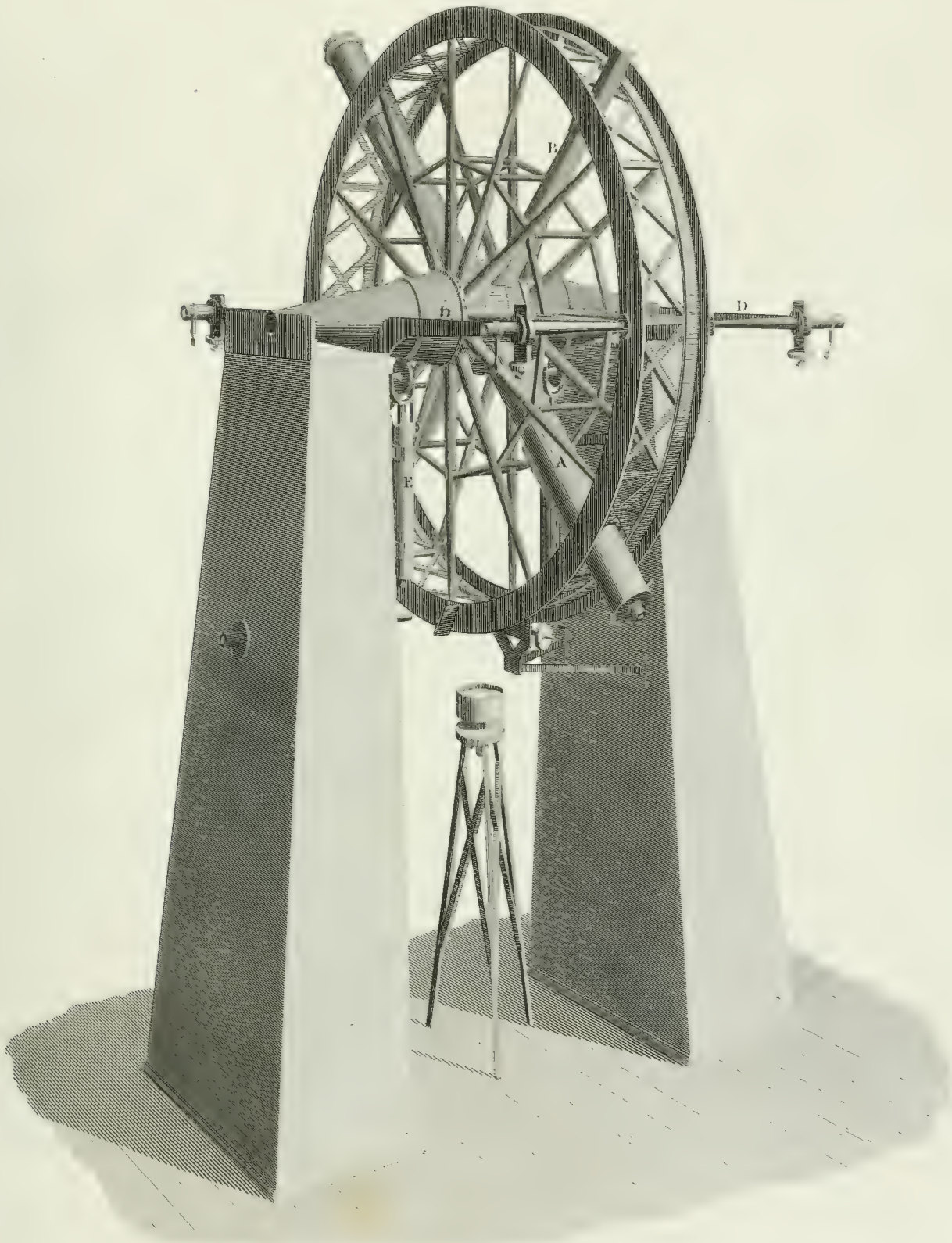
Portable CIRCLE by Troughton.



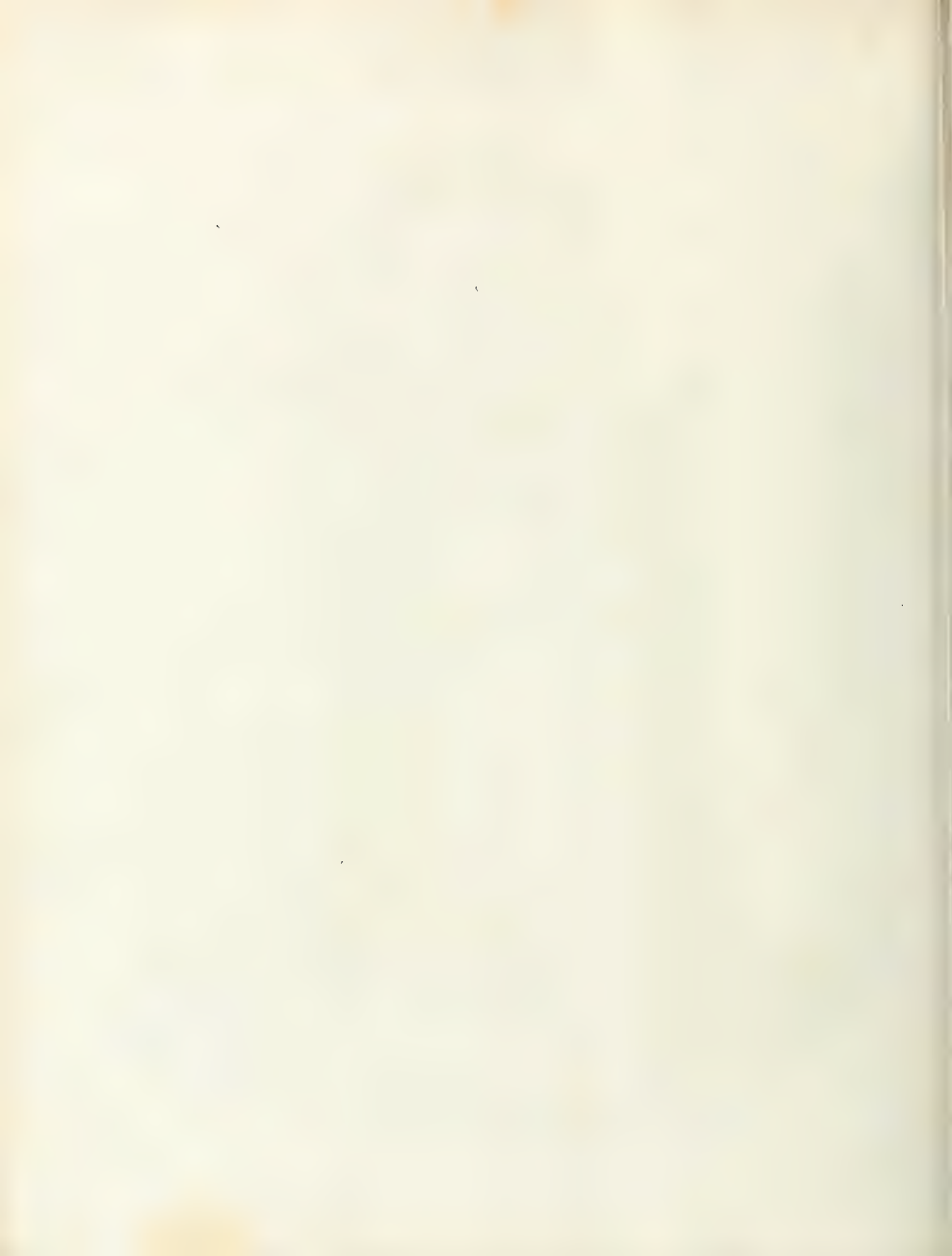




TROUGHTON'S MURAL CIRCLE.



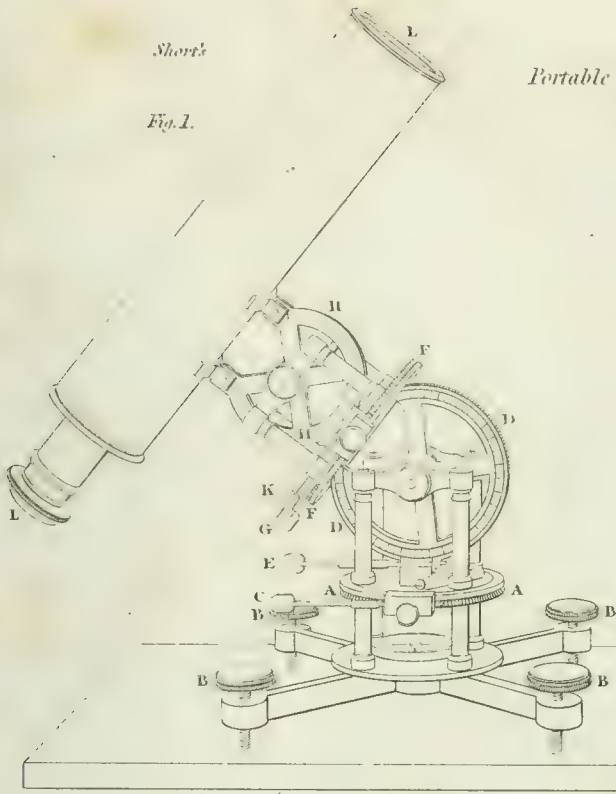
*Drawn by J. Fary, Jun<sup>r</sup>, from the Instrument  
in the possession of S. Groombridge Esq*



Portable Equatorial Instruments

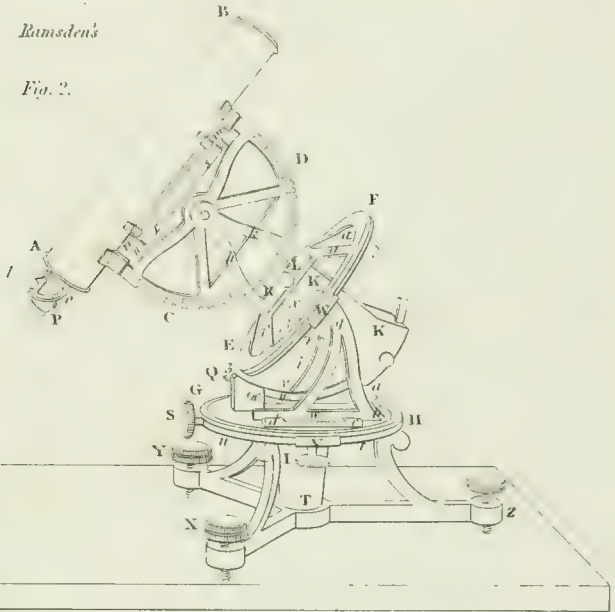
Short's

Fig. 1.



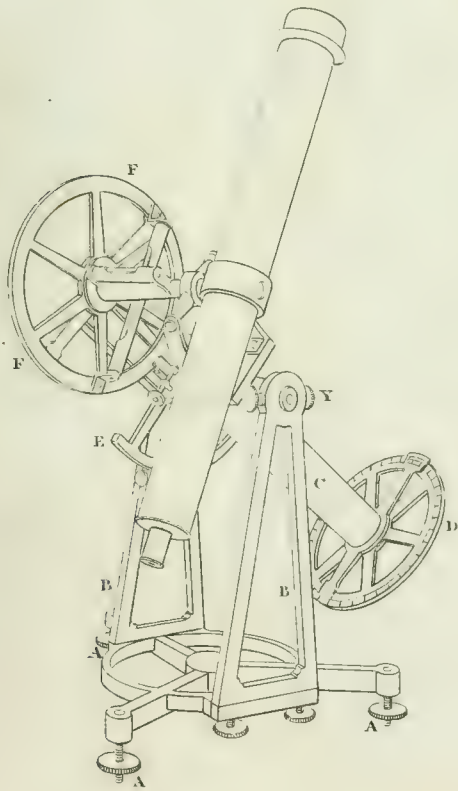
Ramsden's

Fig. 2.



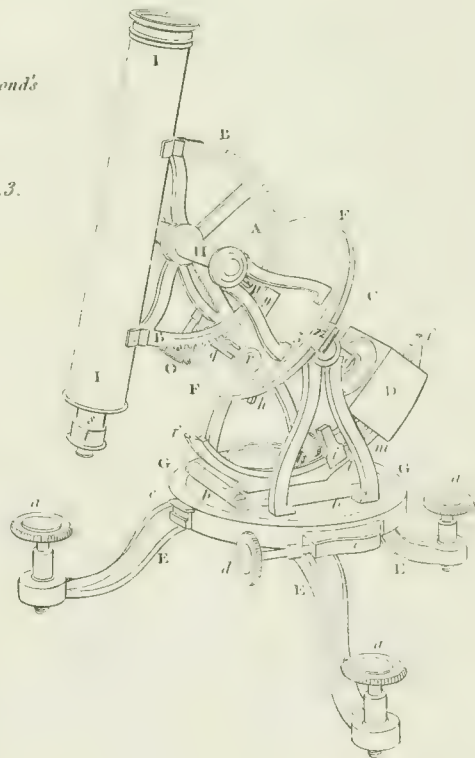
Fayrer's

Fig. 4.



Dollond's

Fig. 3.







*Dollond's,*  
OBJECT GLASS, MICROMETER.

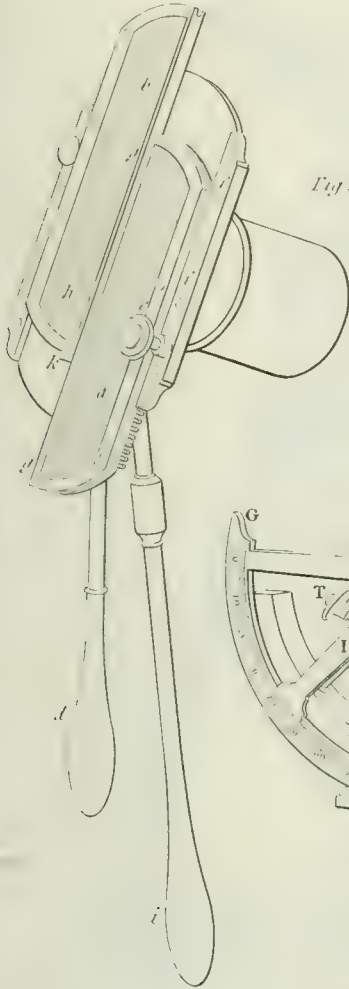


Fig. 4.

*Nairne's,*  
Portable EQUATORIAL  
Instrument.

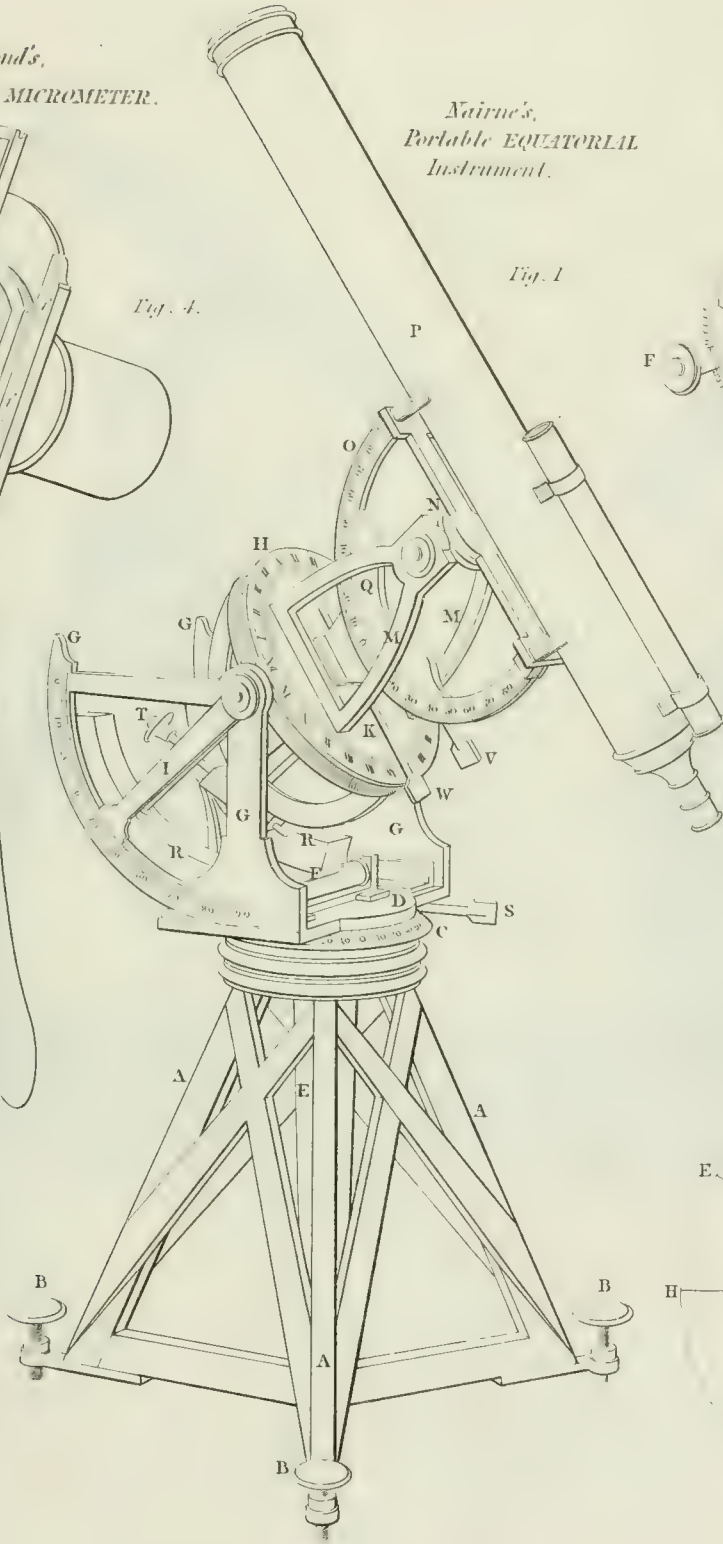


Fig. 1.

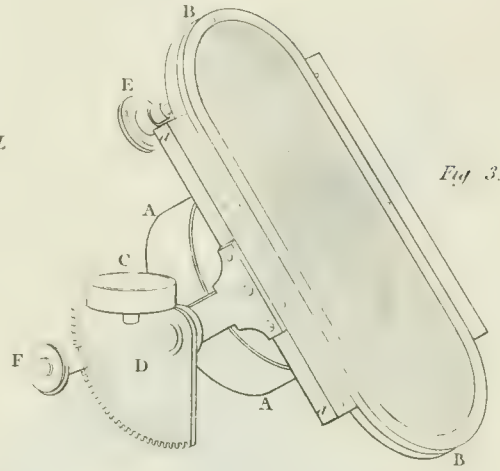
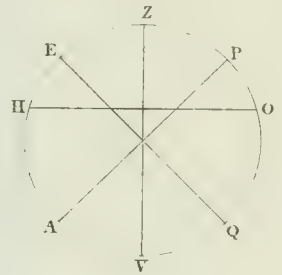


Fig. 3.

*Dollond's,*  
REFRACTION Apparatus.

Fig. 4.



*Ramsden's,*  
REFRACTION Apparatus.

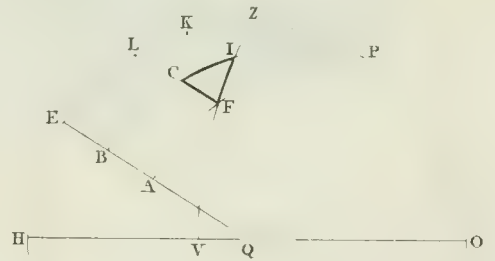
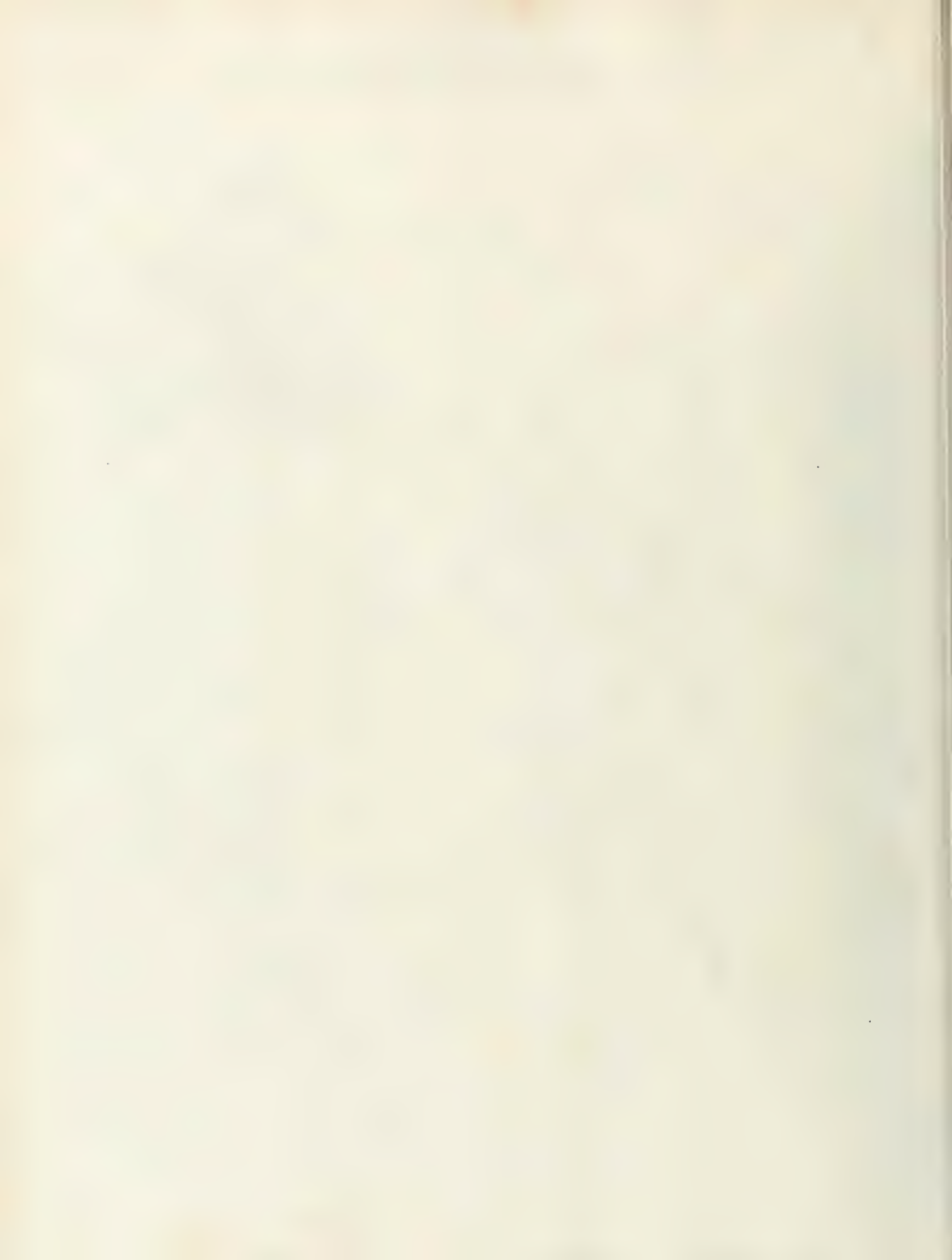
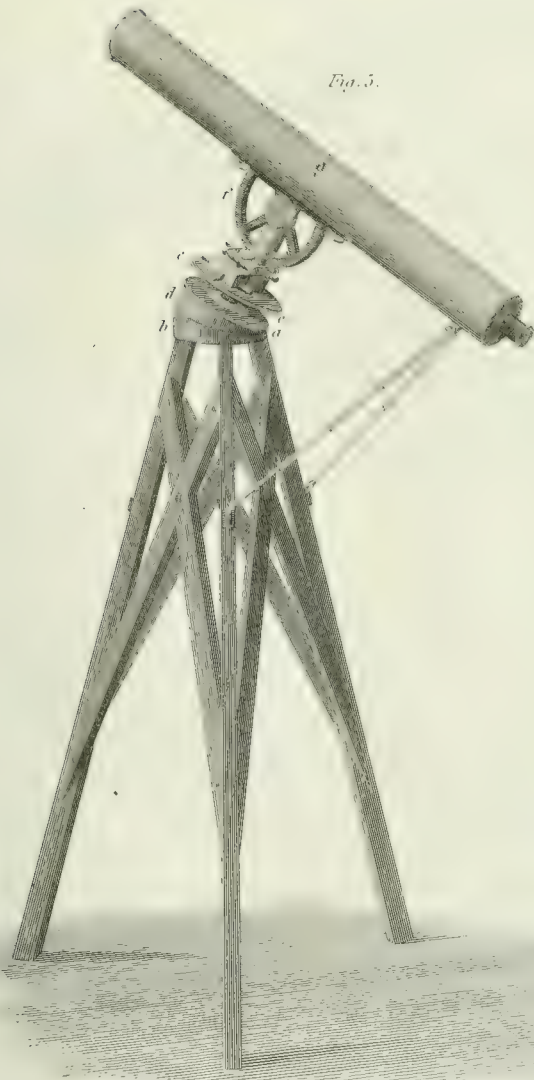


Fig. 2.

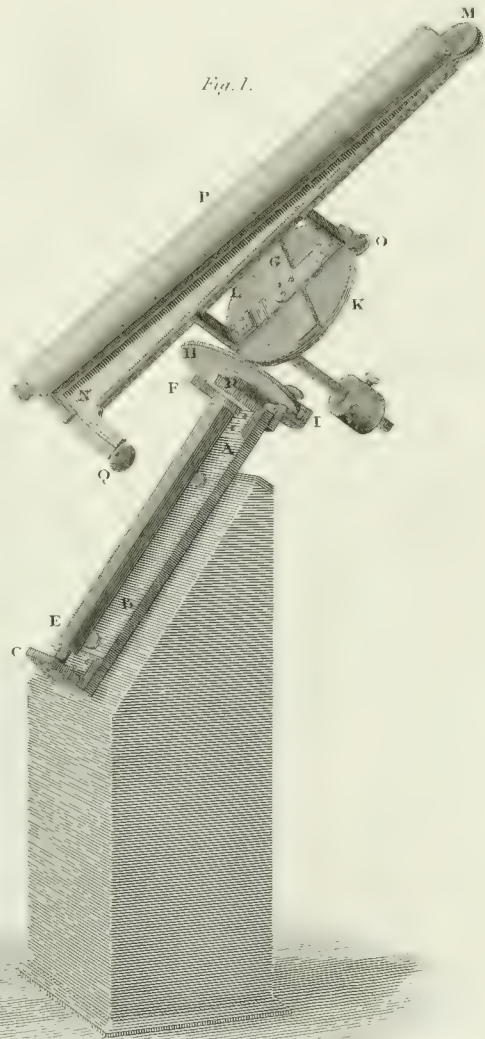


*Equatorial Stand of a  
Telescope.*



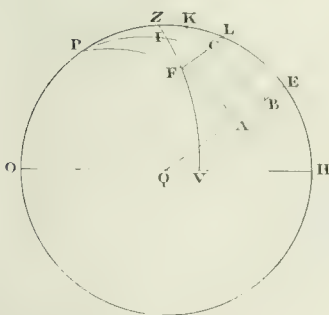
*Fig. 5.*

*M<sup>r</sup> Graham's Equatorial  
Sector.*

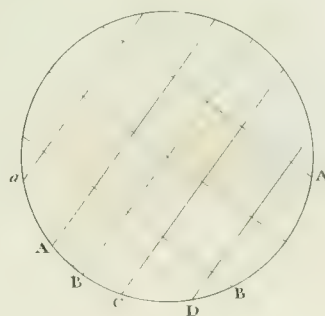


*Fig. 1.*

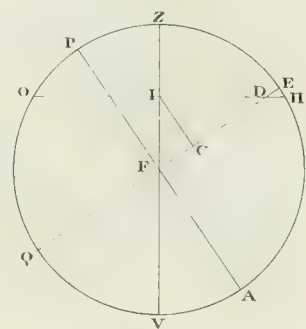
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*







*Universal EQUATORIAL, Instrument. by Troughton.*





ASTRONOMICAL INSTRUMENTS.

PLATE XVI.

*Equatorial Instrument made by Ramsden for Sir Geo. Shuckburgh.*



*In viewing this picture, the eye of the Spectator should be placed at 12 inches perpendicular distance from the intersections of the lines V.V. W.W.*





ASTRONOMICAL INSTRUMENTS.

*EQUATORIAL Instrument at Armagh.*

*made by Troughton.*

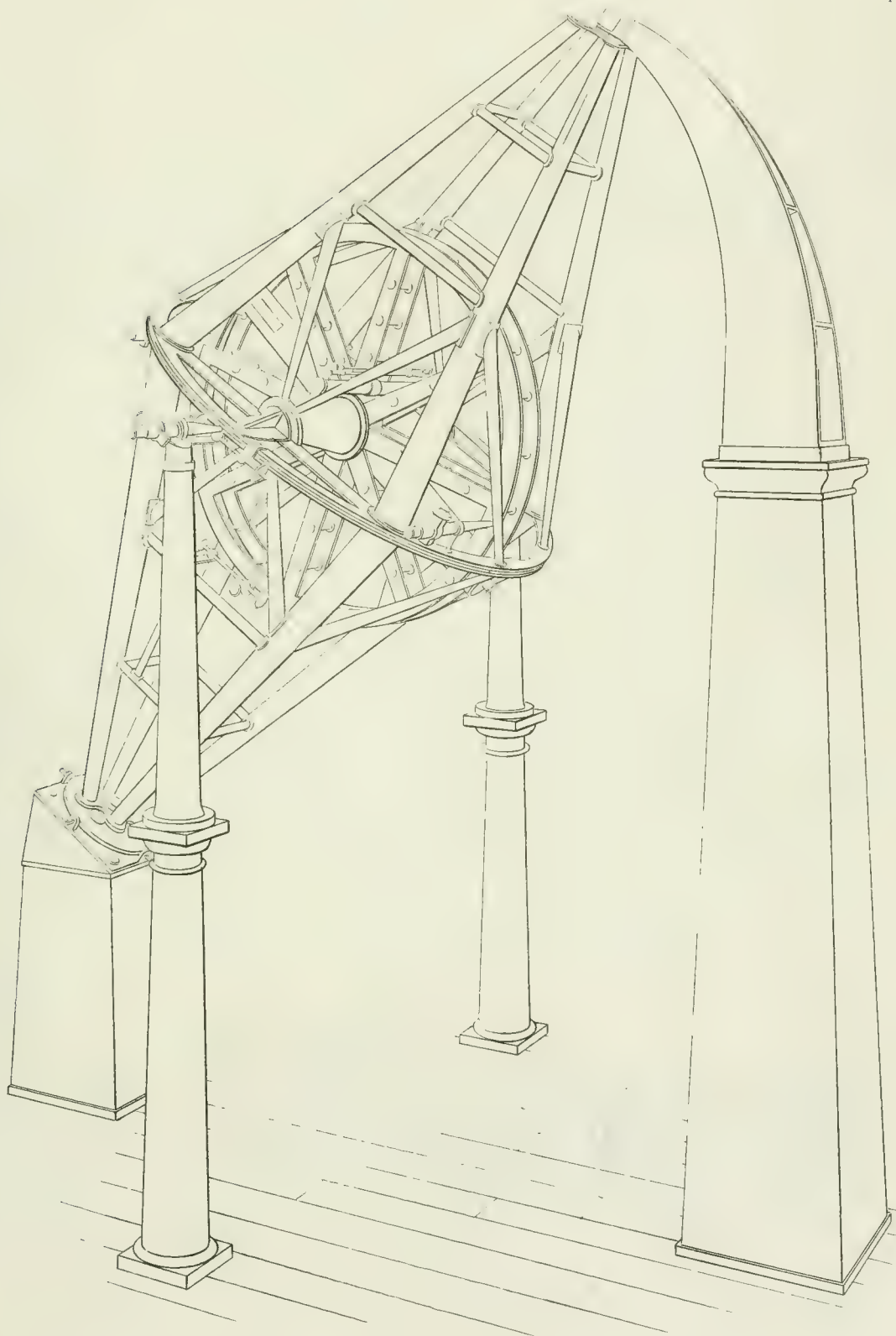




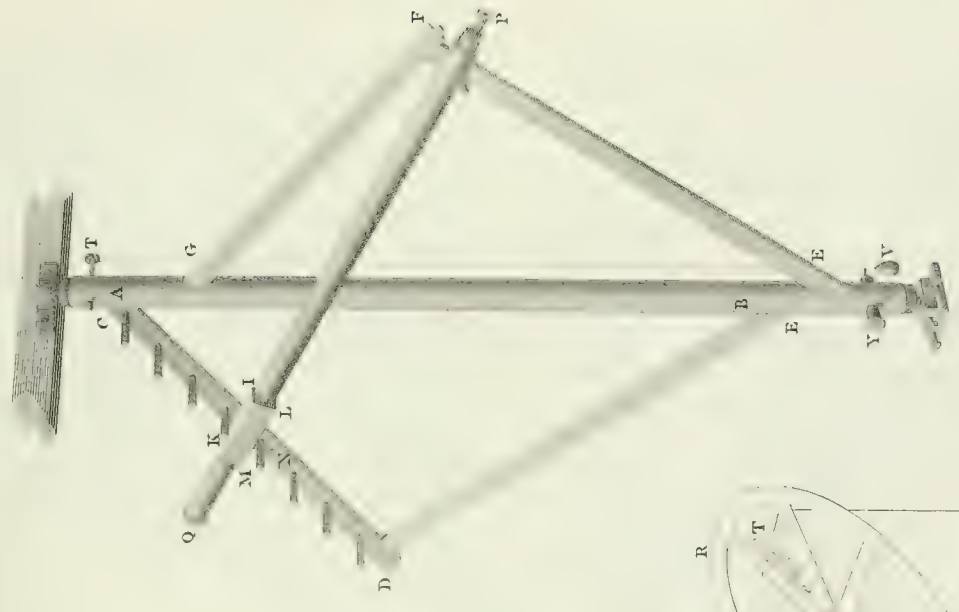


Fig. 1.  
Sisson's Equatorial Sector.



Fig. 2.  
Earl of Ray's Equal Altitude Instrument.

Fig. 3.



Mr. Cole's Equal Altitude Instrument.

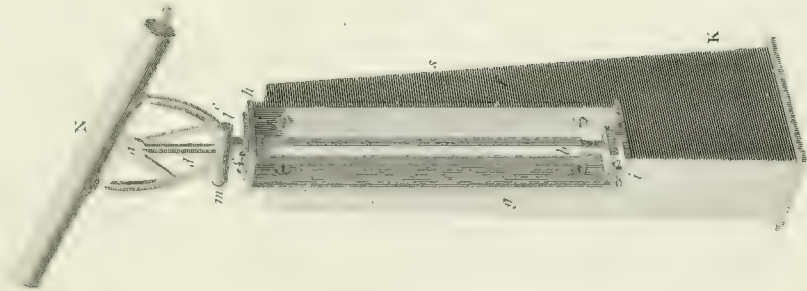


Fig. 4.

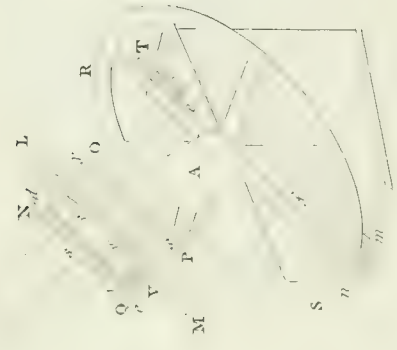


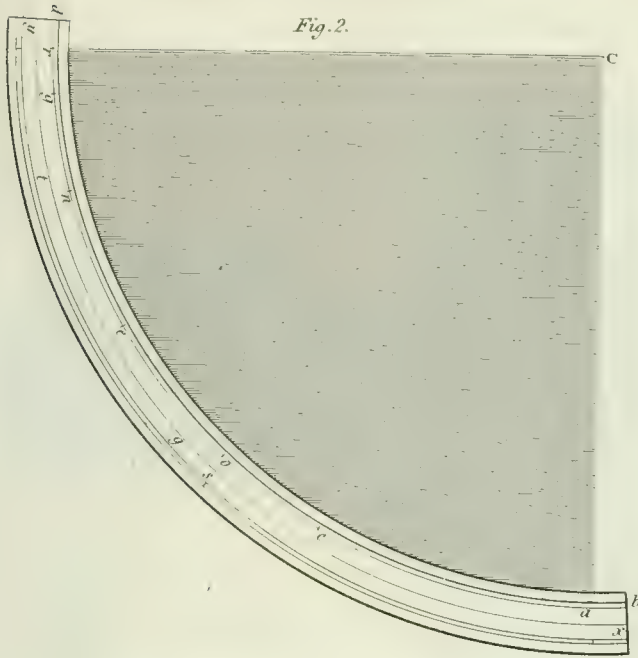
Fig. 5.





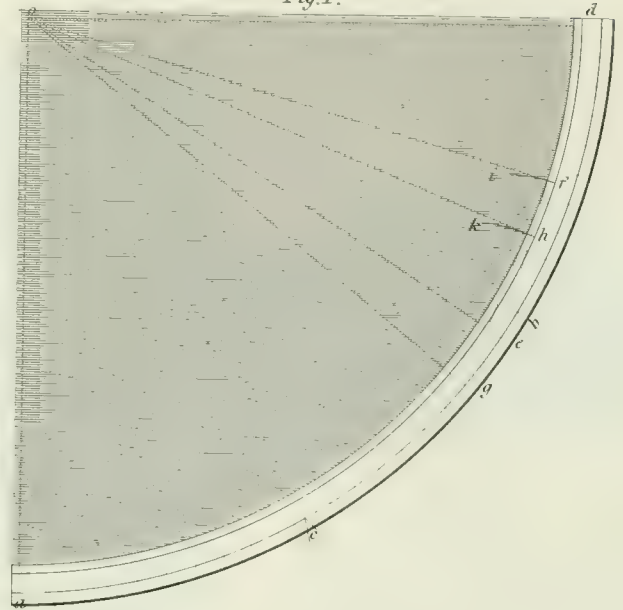
*Division of Bird's Quadrant.*

*Fig. 2.*



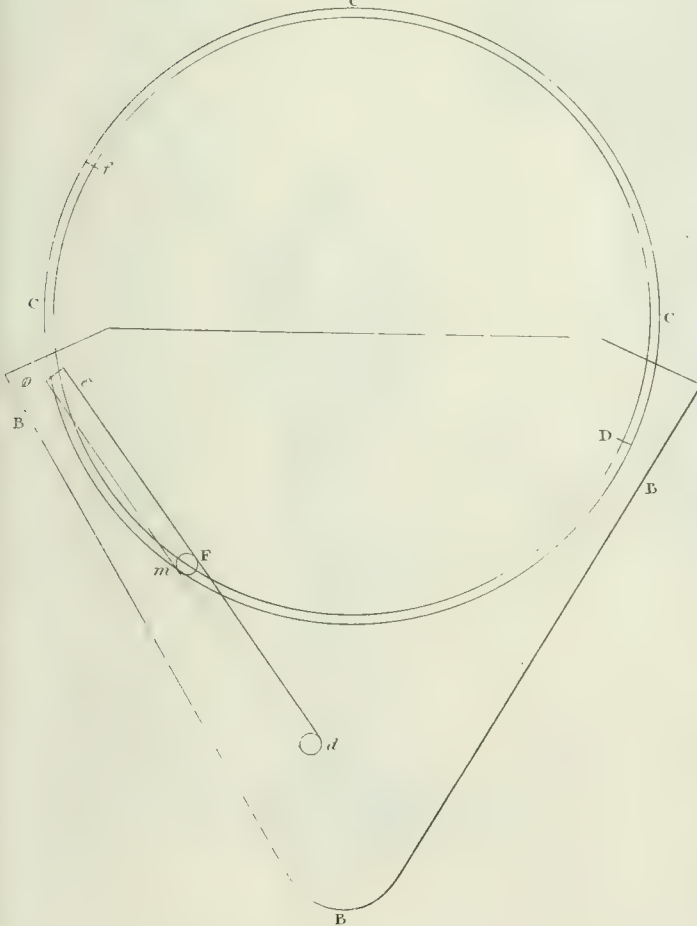
*Division of Graham's Quadrant.*

*Fig. 1.*



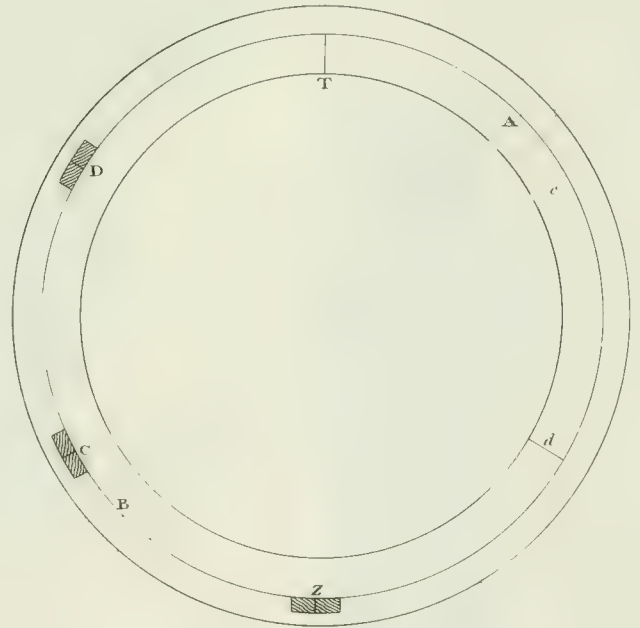
*M<sup>r</sup> Cavendish's Dividing.*

*Fig. 4.*



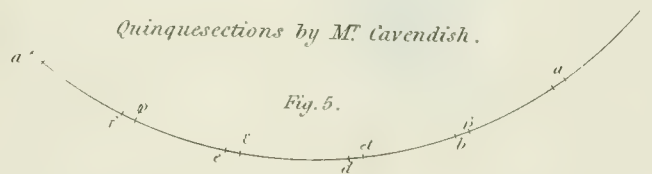
*duc de Chaulne's Dividing.*

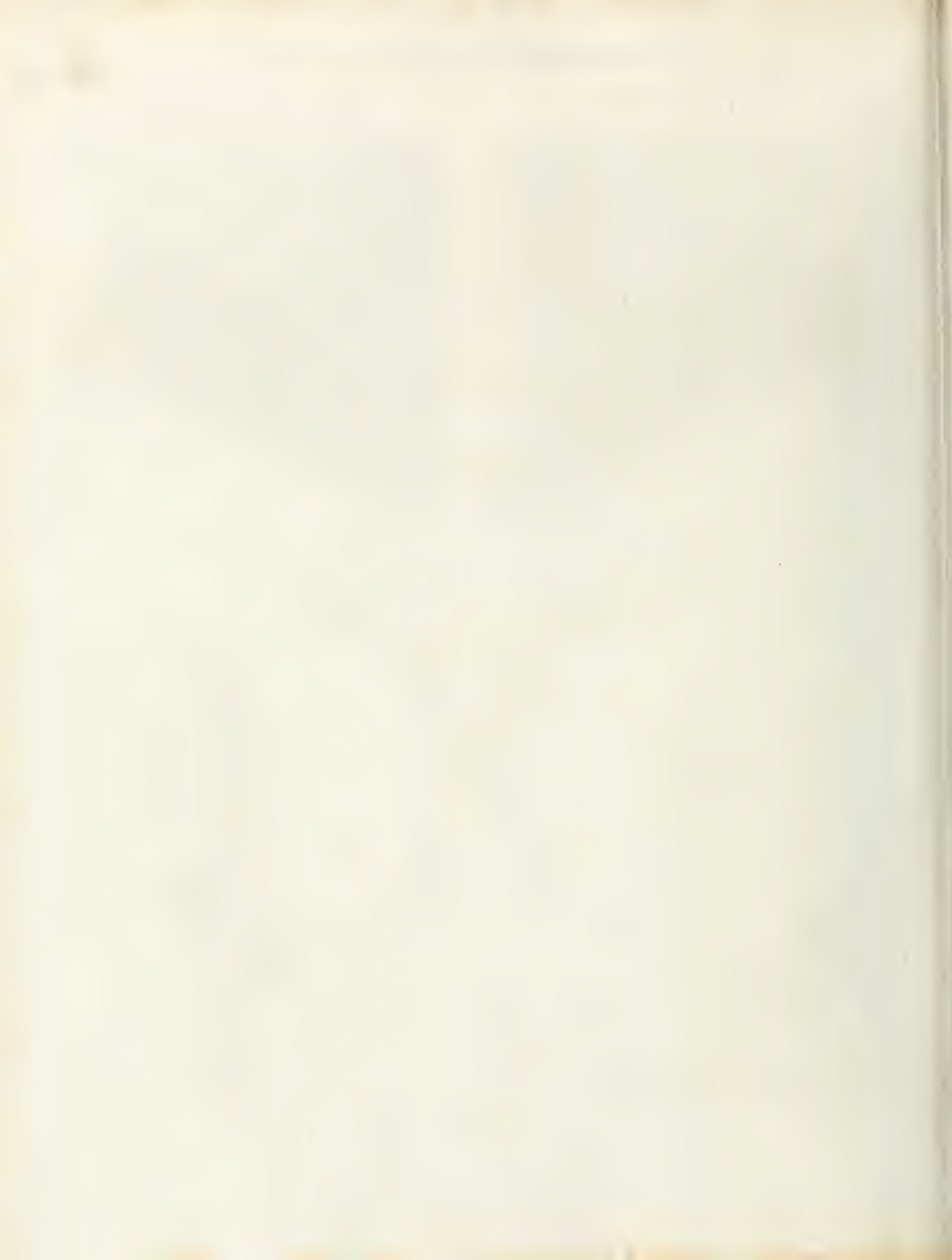
*Fig. 3.*



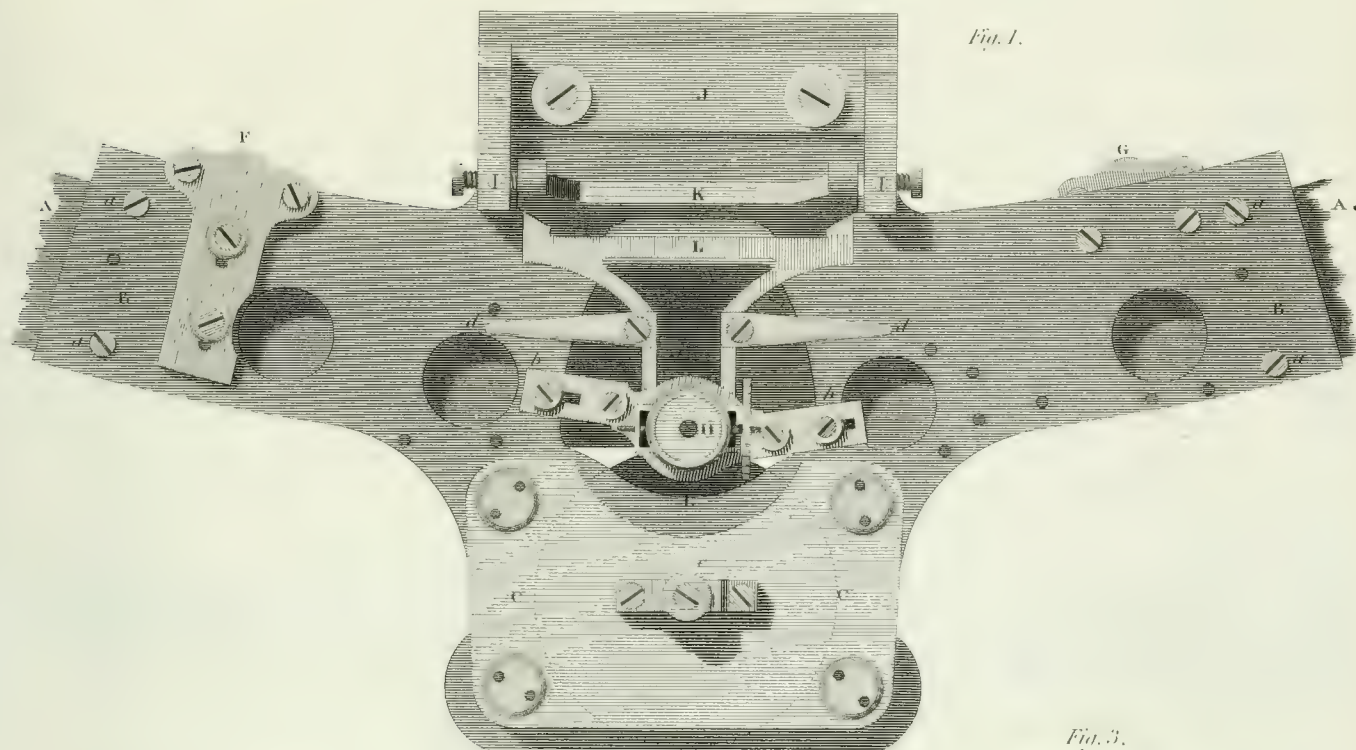
*Quinquesections by M<sup>r</sup> Cavendish.*

*Fig. 5.*

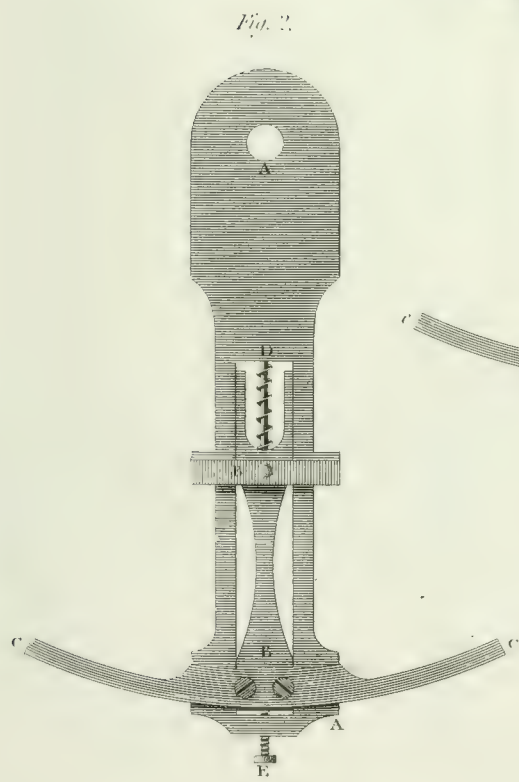




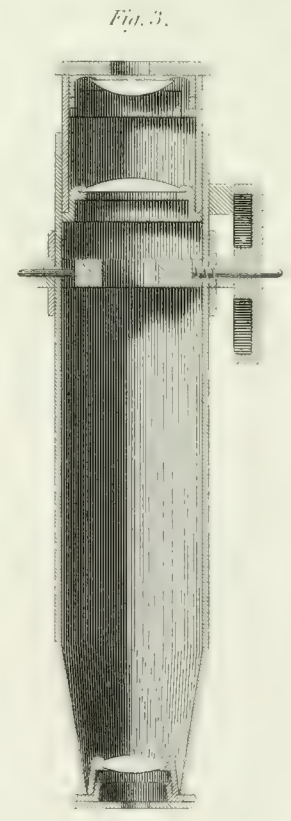
*Troughton's method of Graduating a Circle.*



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*





ASTRONOMICAL INSTRUMENTS.

Troughton's method of Graduating a Circle.

Fig. 4.

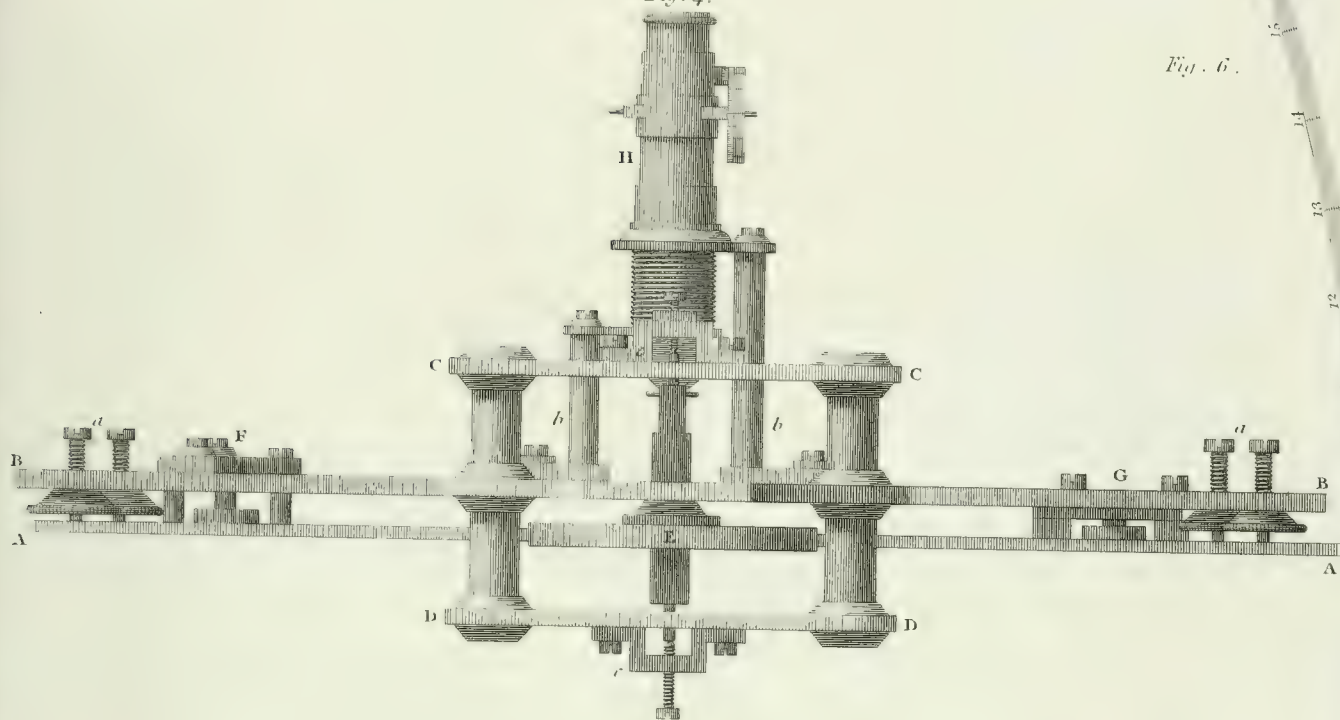


Fig. 6.

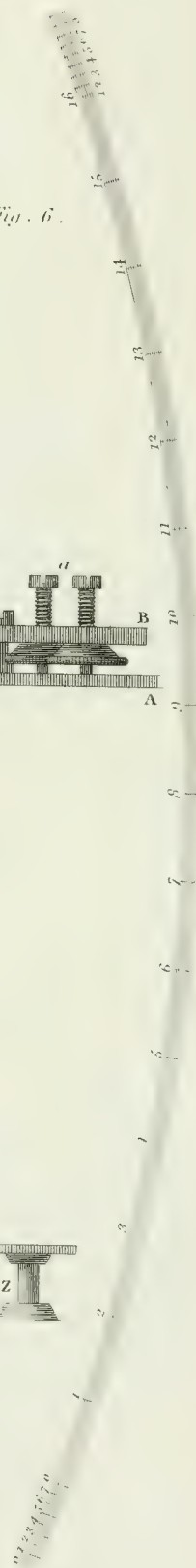
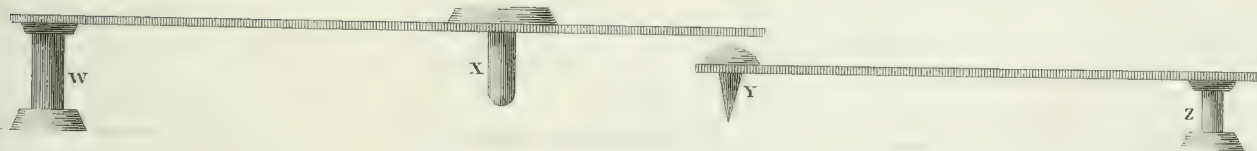
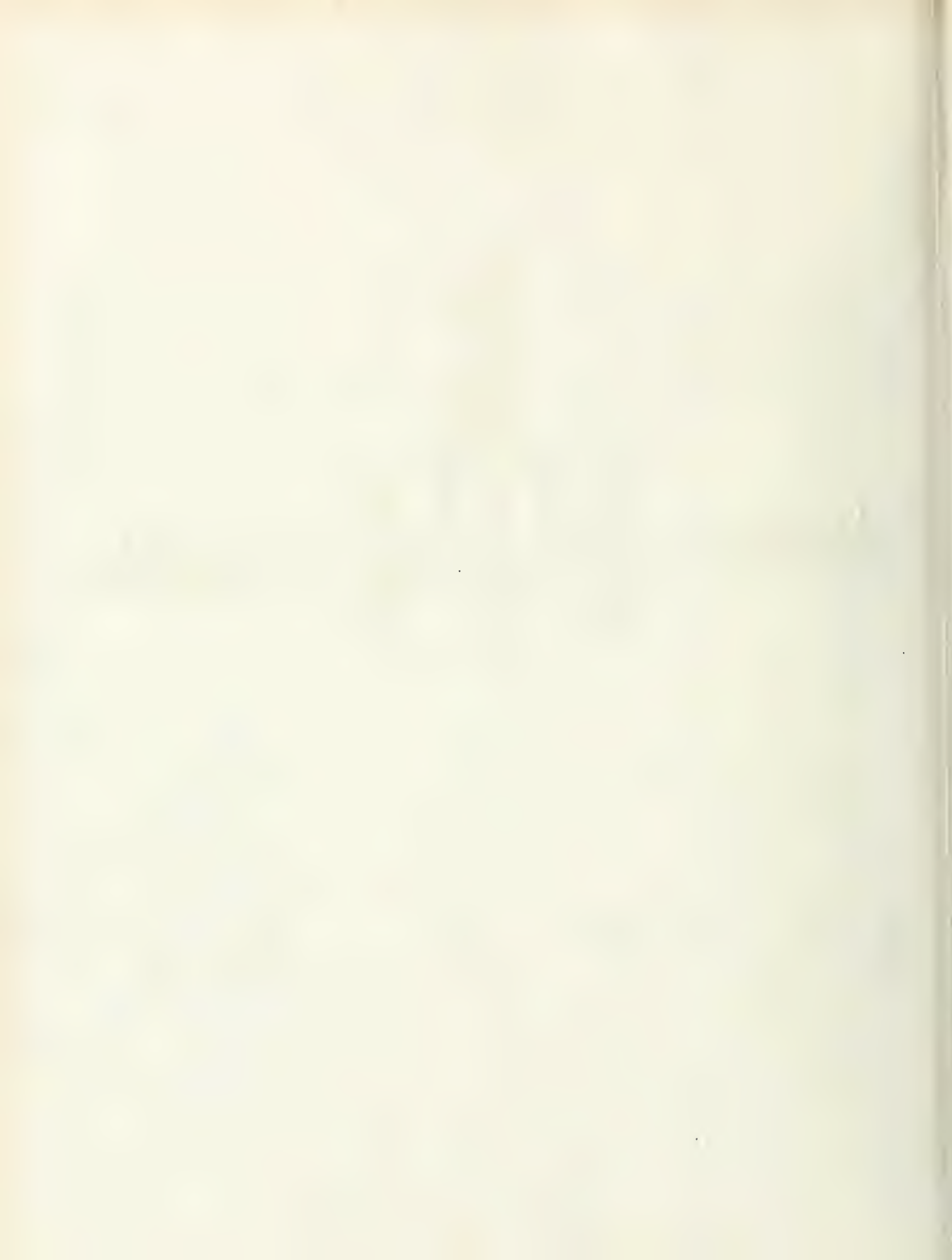


Fig. 5.





GRADUATION.

by Clavius

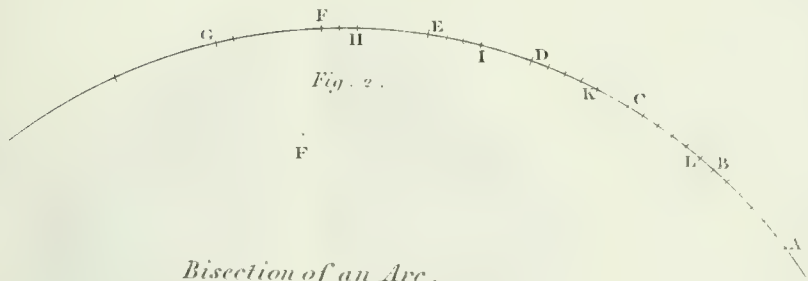


Fig. 2.

Bisection of an Arc.



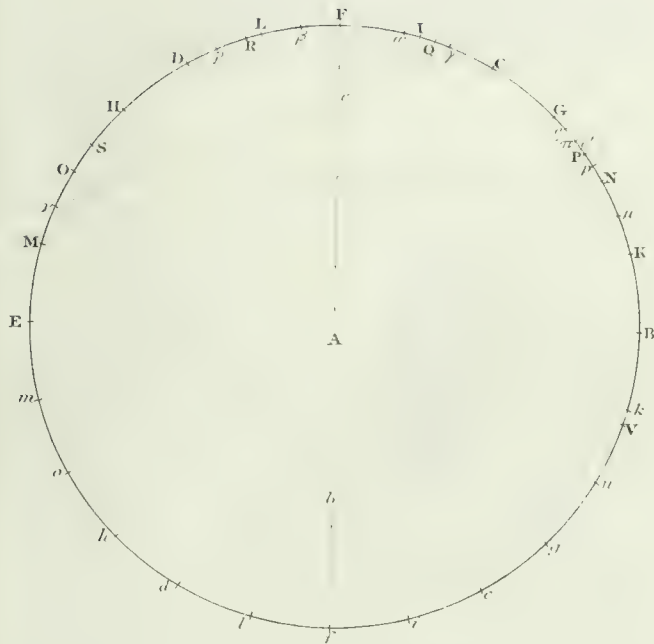
Fig. 5.

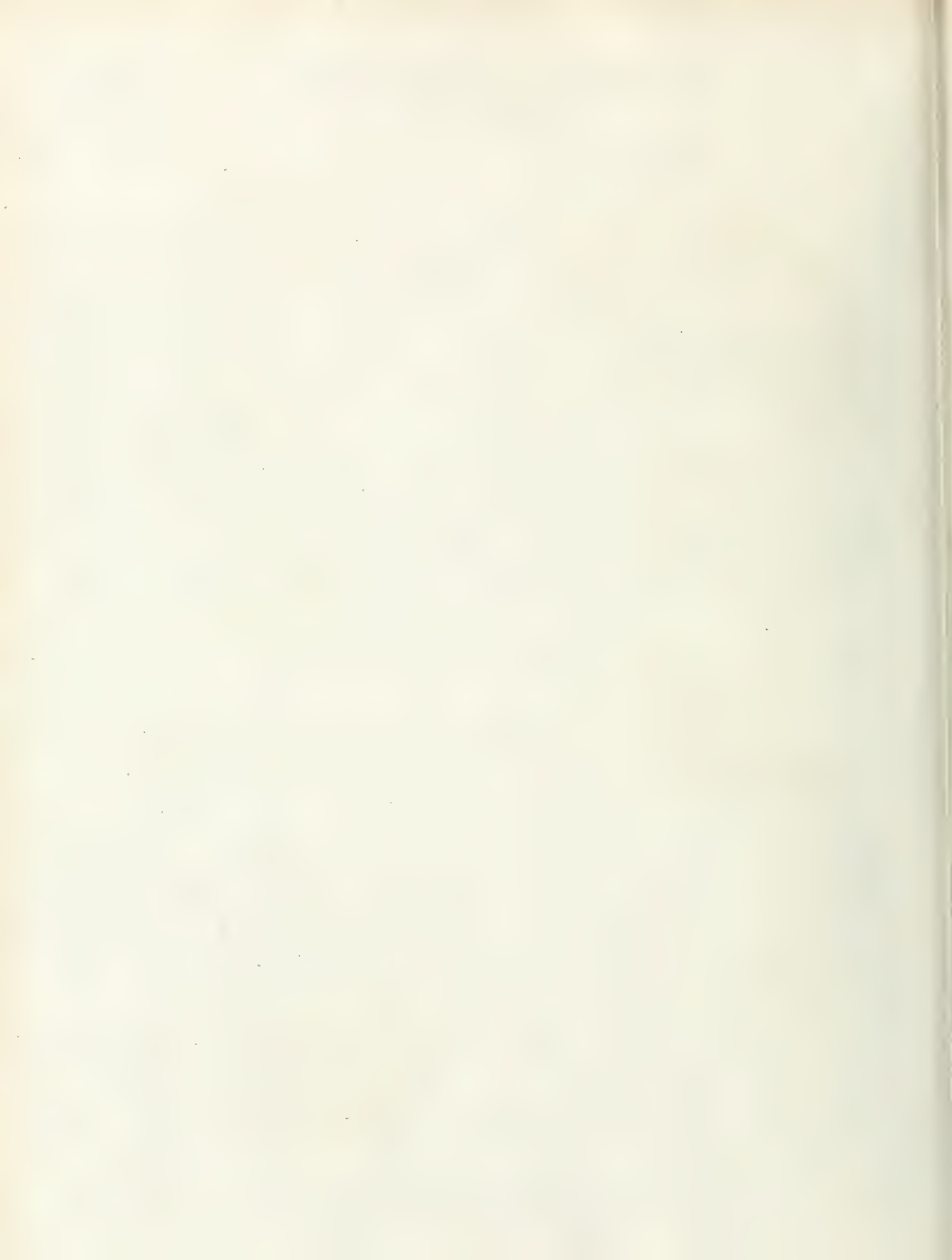


Fig. 4.

Fig. 4.

by Mascheroni







ROTATIVE ROOF.

Rev.<sup>d</sup> W. Pearson's.

Fig. 5.

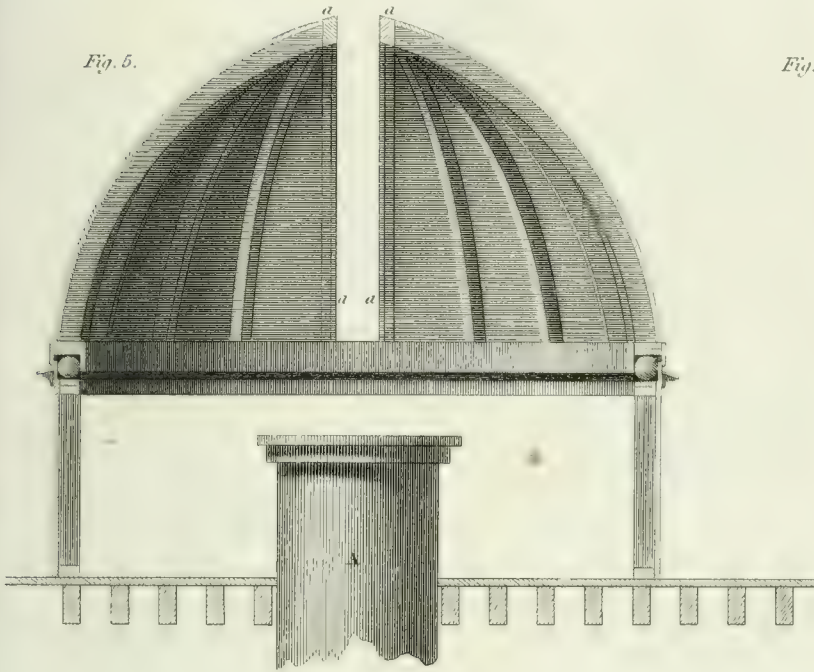


Fig. 6.

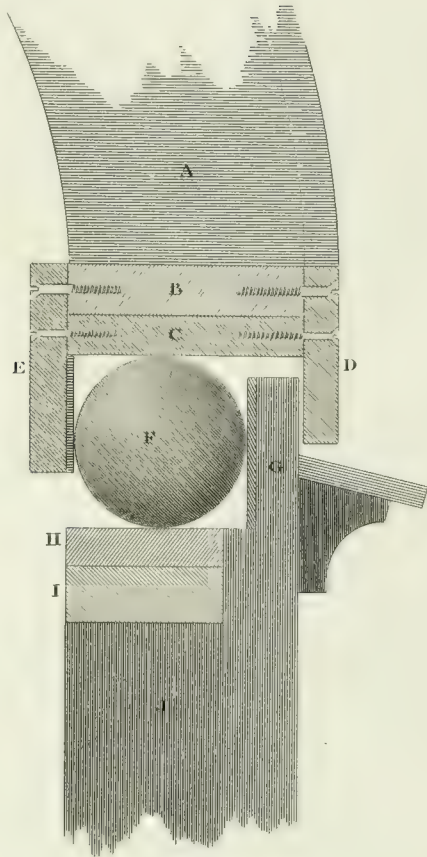
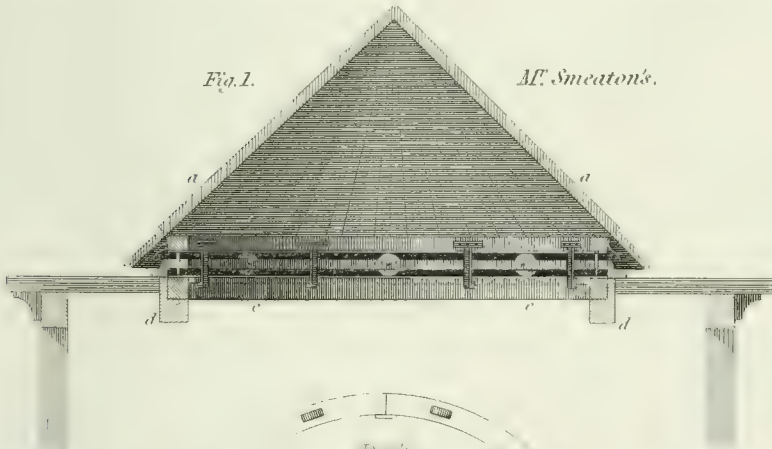


Fig. 1.

M<sup>r</sup>. Smeaton's.



Section of the Lids.

Fig. 3.

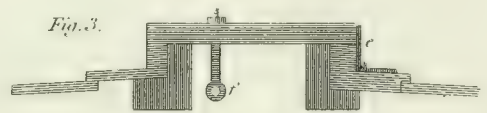


Fig. 2.

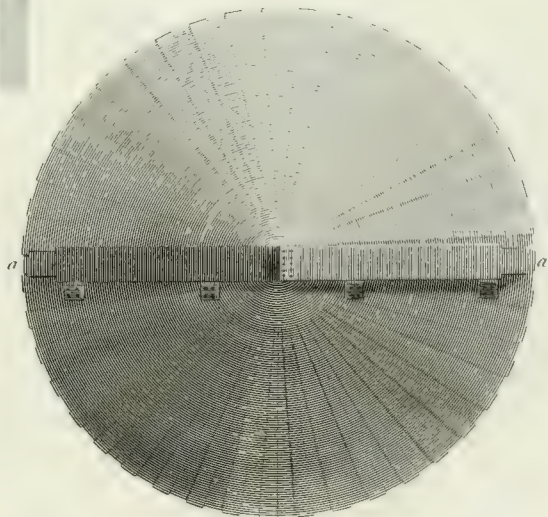
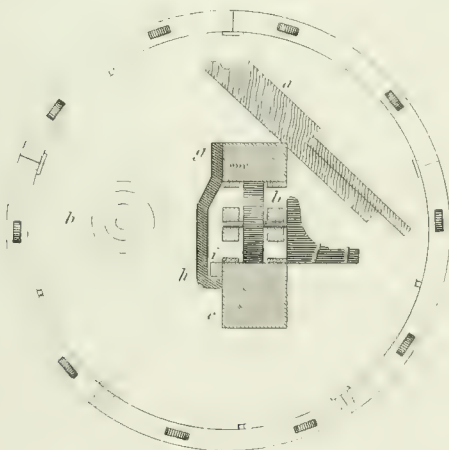
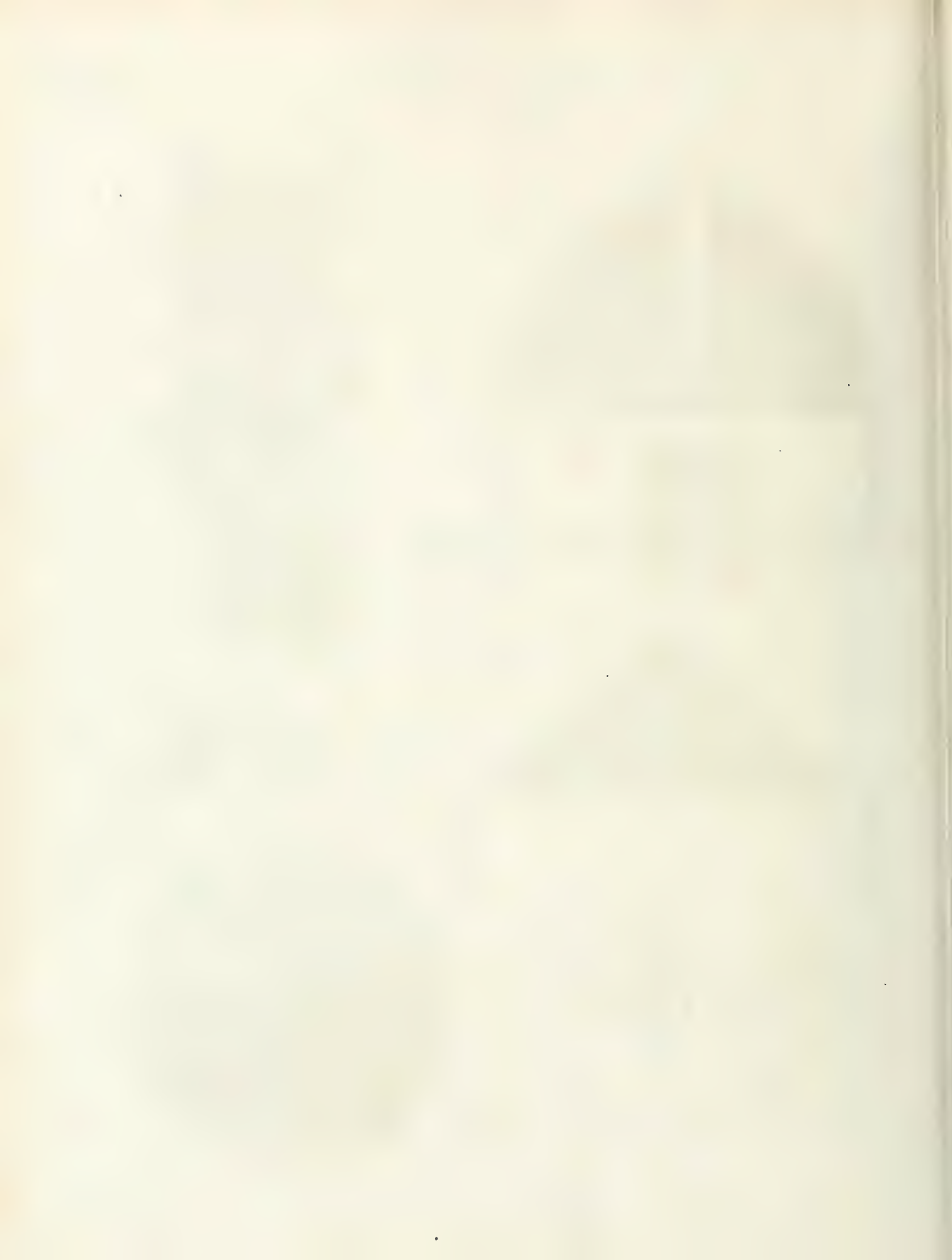
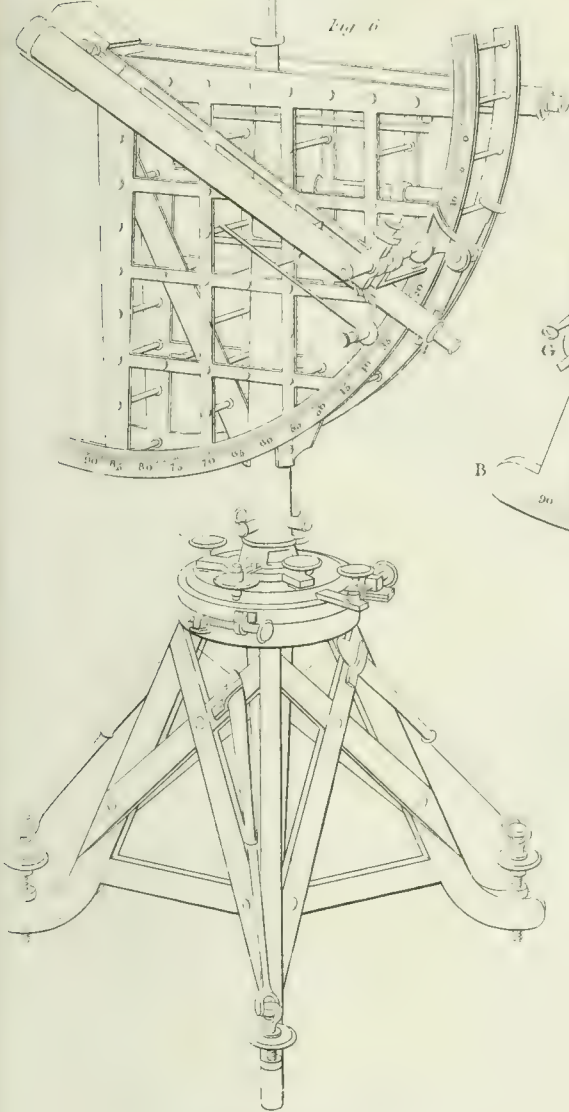


Fig. 4.



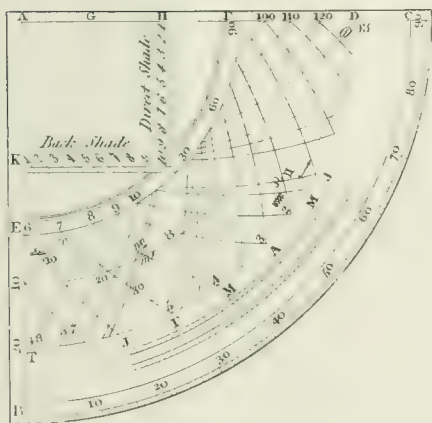


Troughton's QUADRANT.



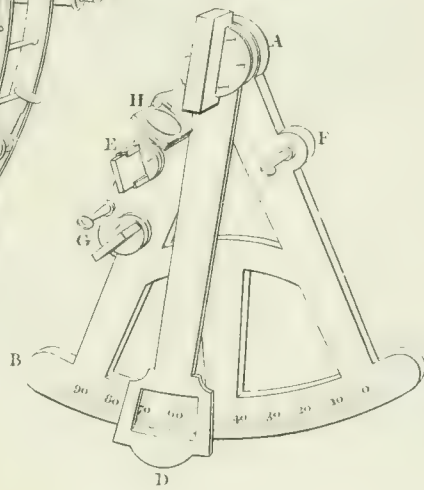
Gunter's QUADRANT.

Fig. 3.



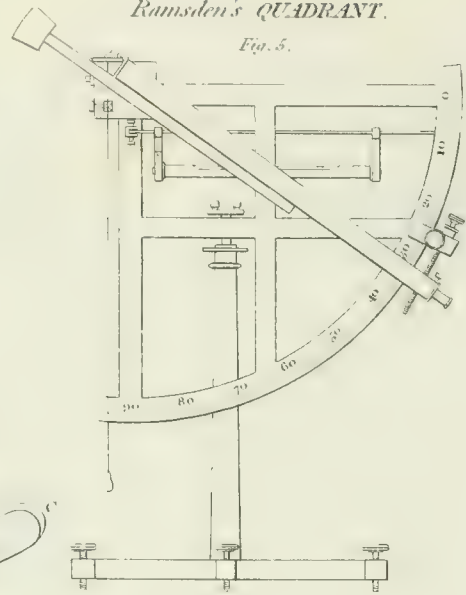
Hally's OCTANT

Fig. 1



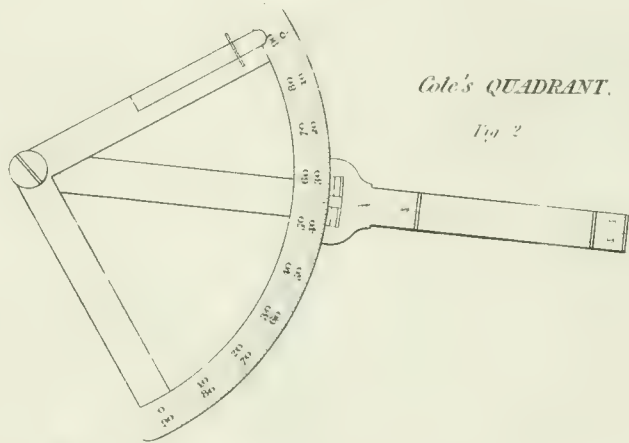
Ramsden's QUADRANT.

Fig. 5.



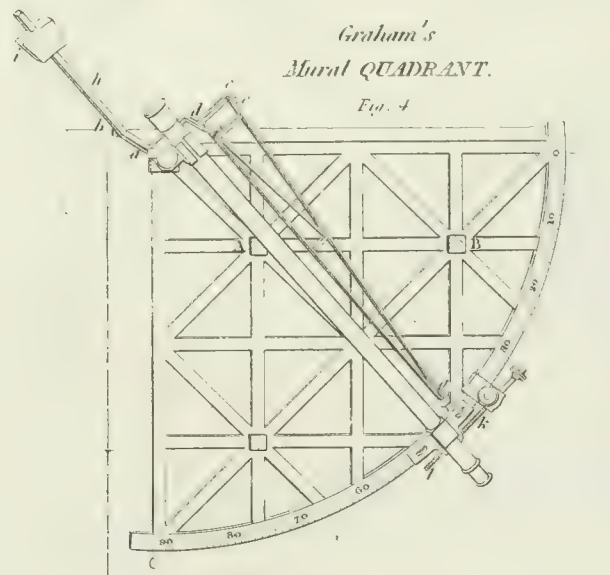
Cole's QUADRANT.

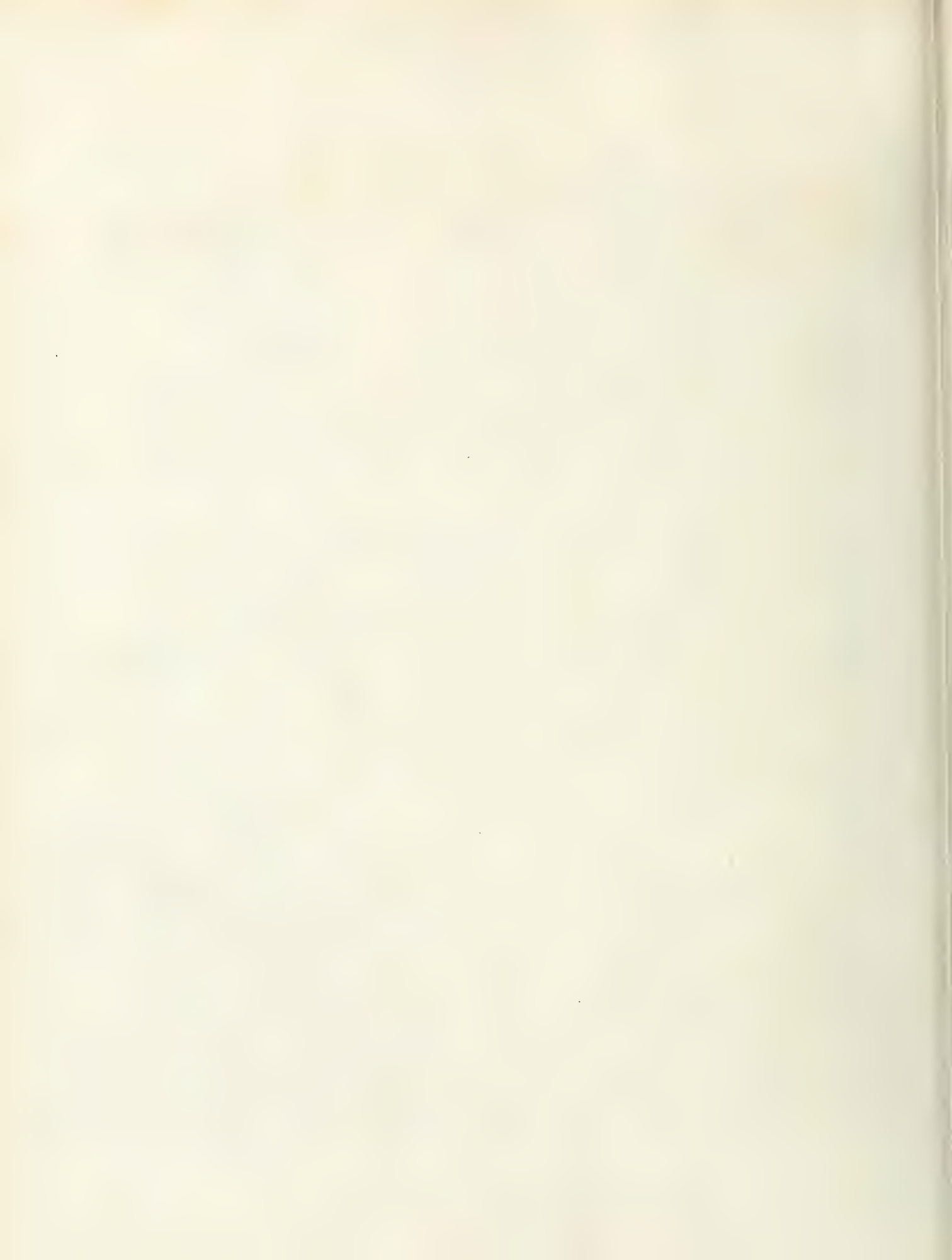
Fig. 2



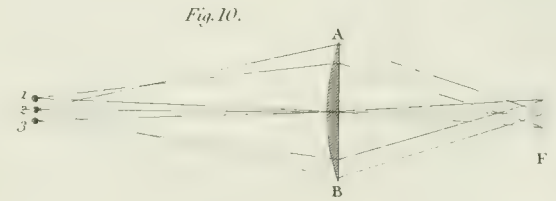
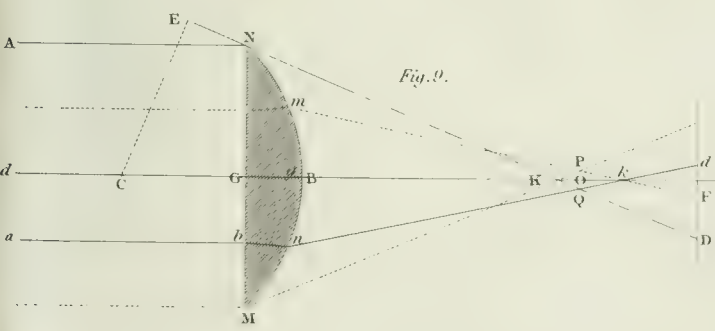
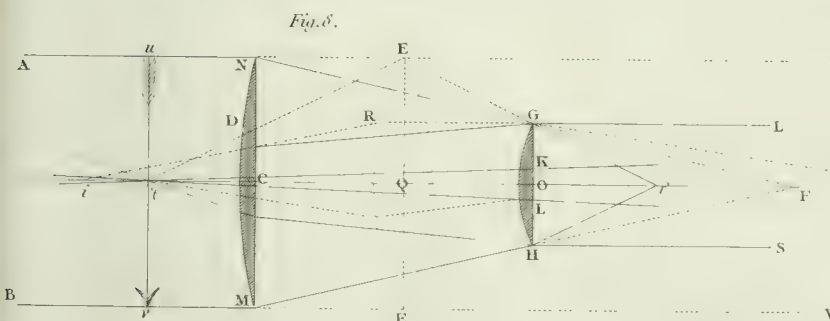
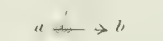
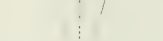
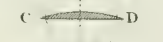
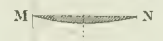
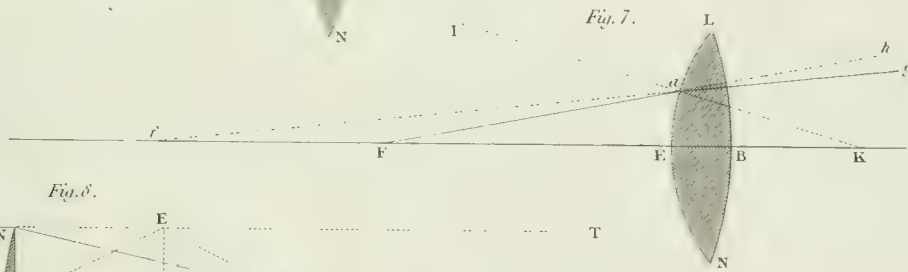
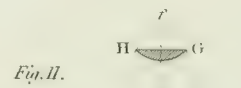
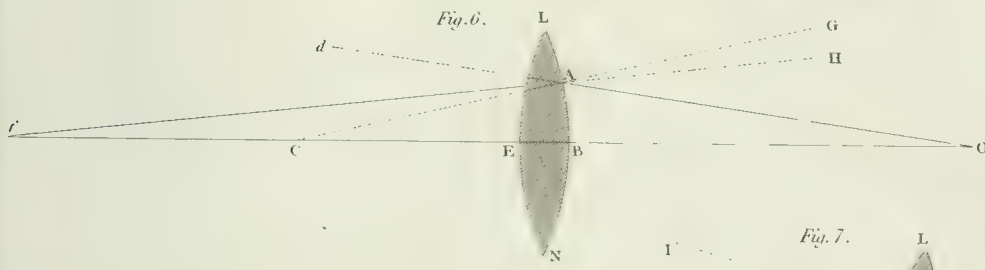
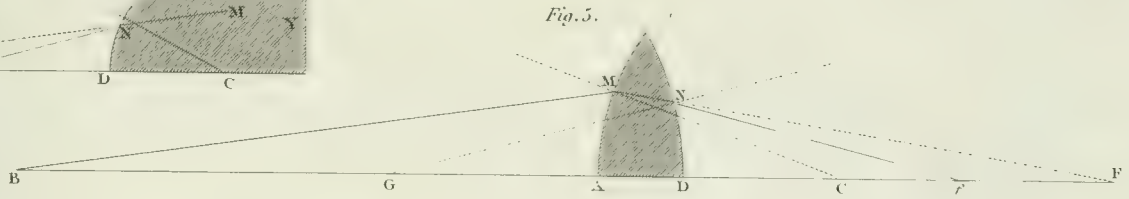
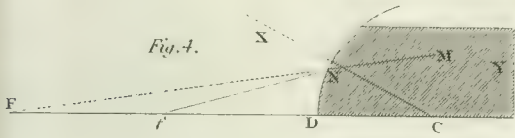
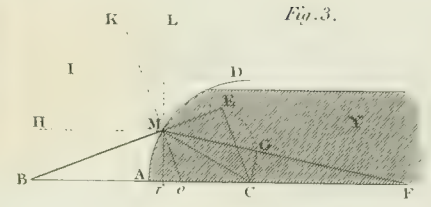
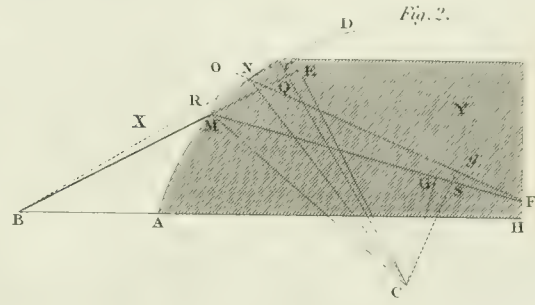
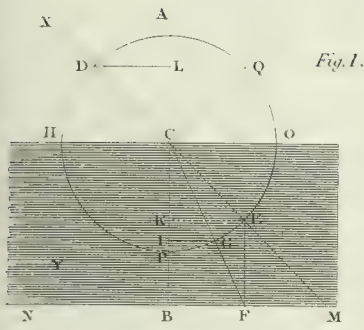
Graham's Mural QUADRANT.

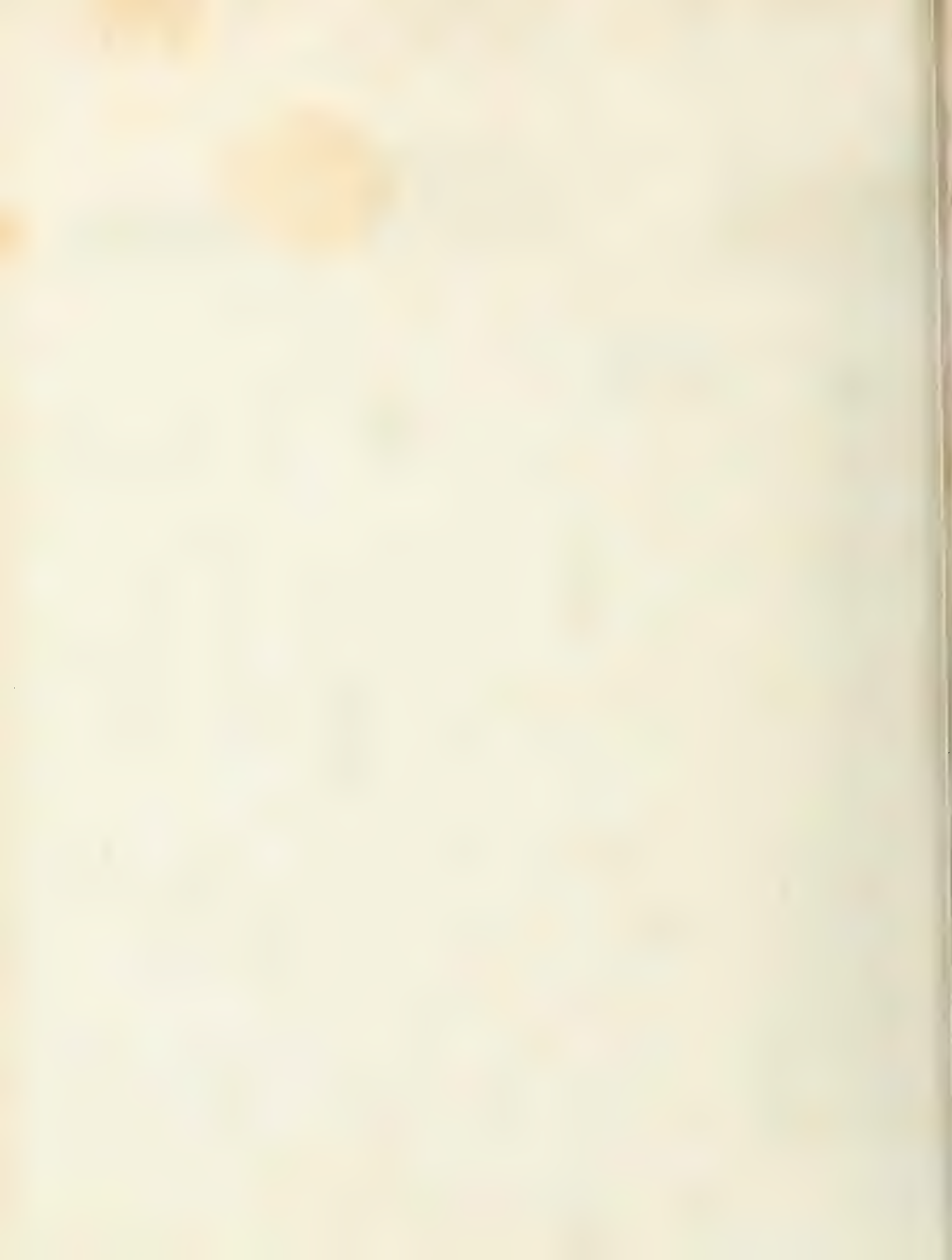
Fig. 4



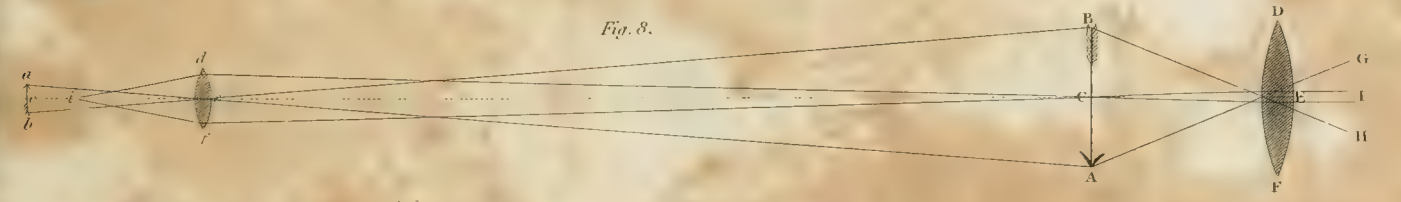
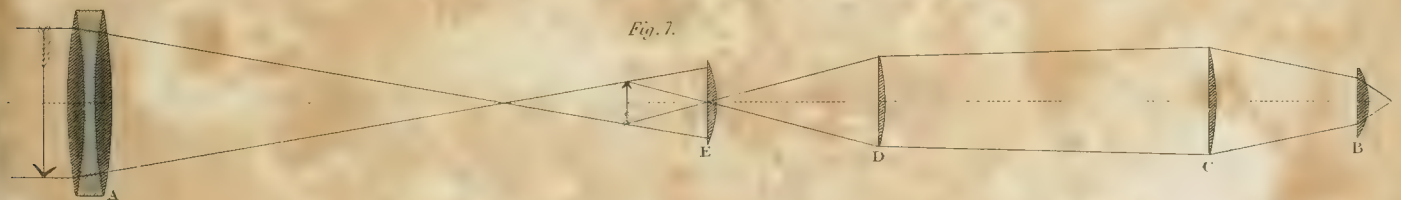
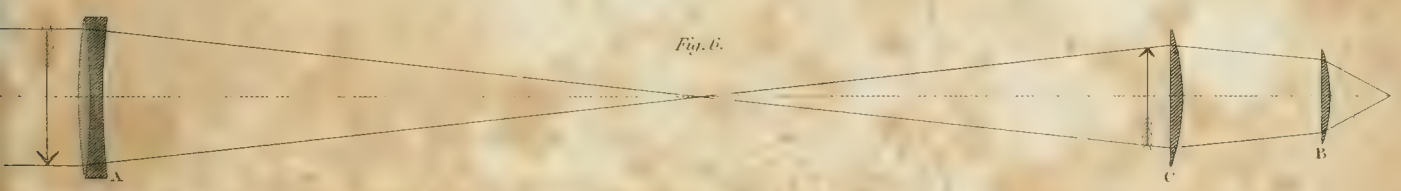
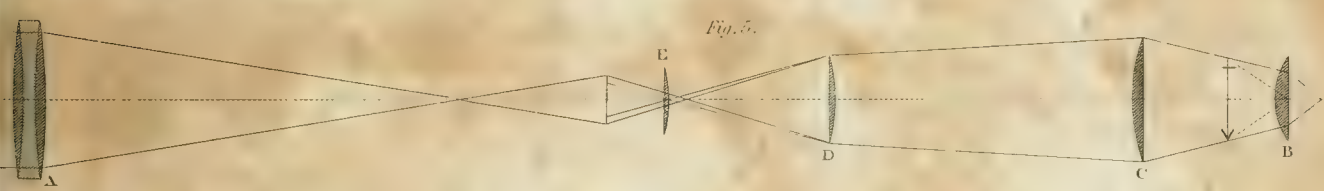
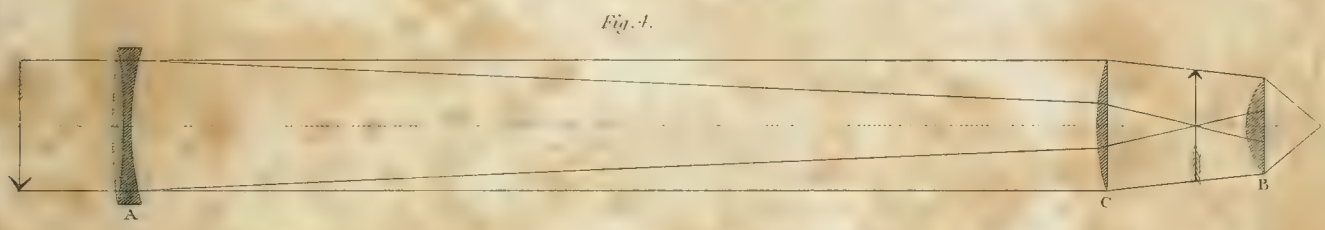
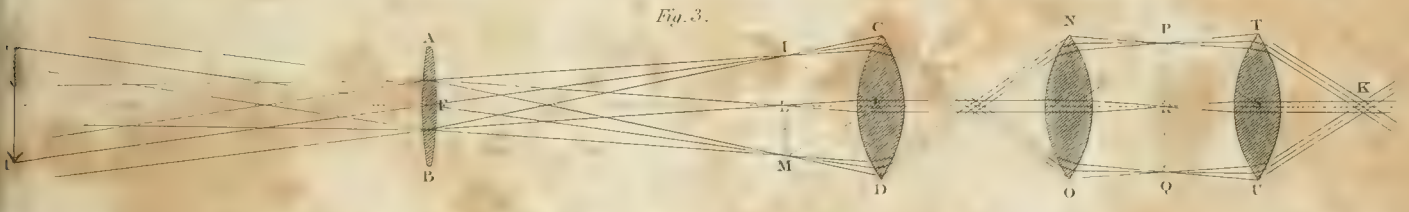
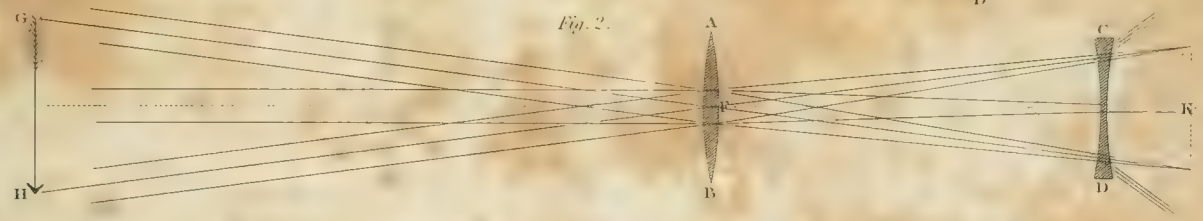
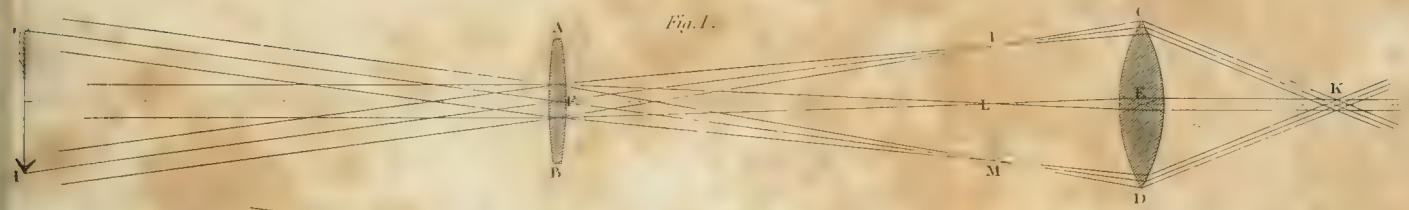








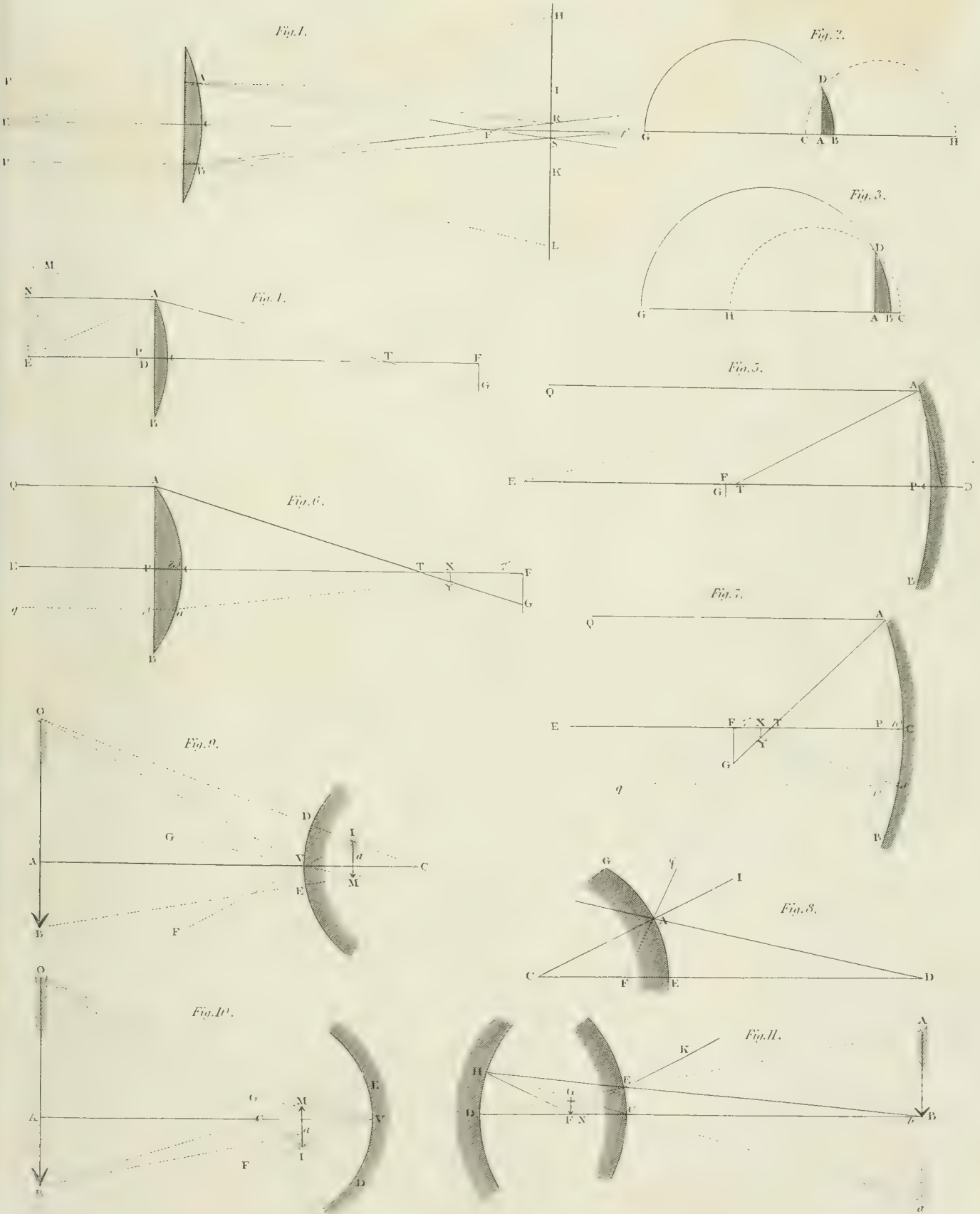
The Theory of refracting TELESCOPES, and of the compound MICROSCOPE.





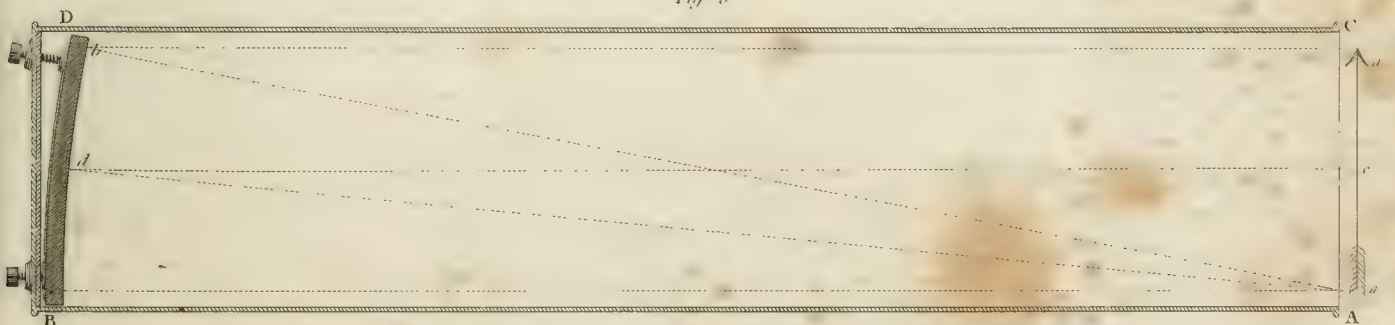
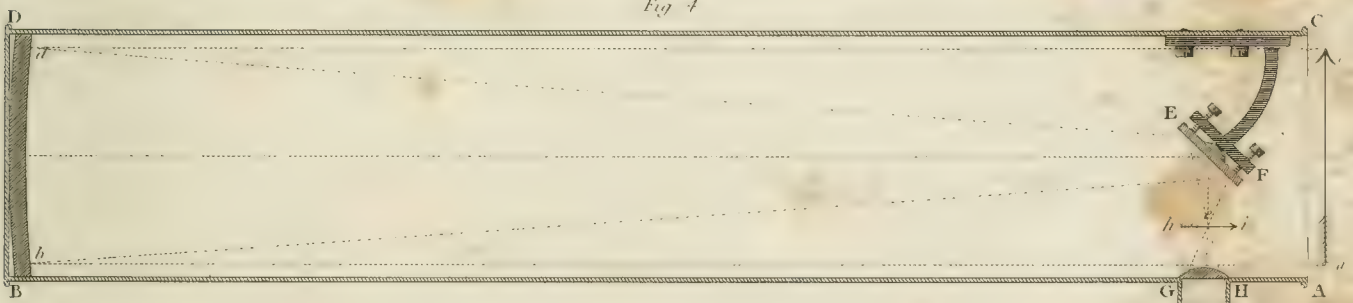
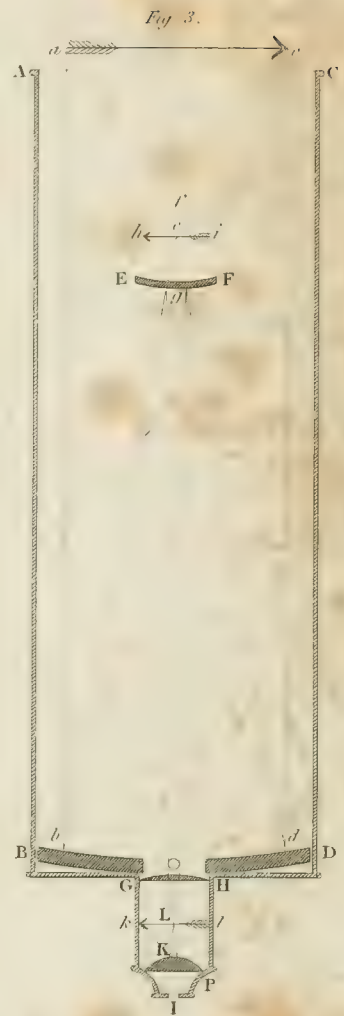
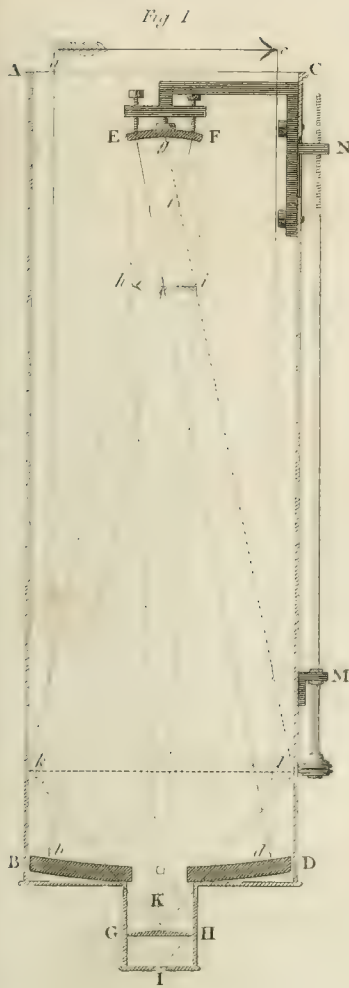


Theory of the TELESCOPE with respect to aberrations &c.





Theory of Reflecting TELESCOPES.







*Principles of Achromatic TELESCOPES.*

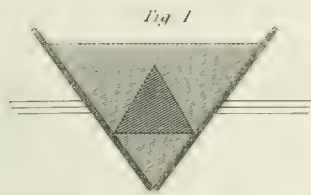


Fig. 1.

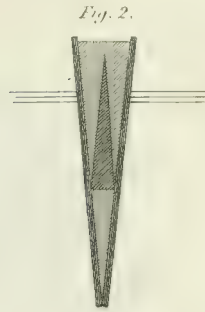


Fig. 2.

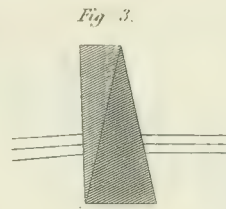


Fig. 3.



Fig. 4.



Fig. 5.



Fig. 6.



Fig. 7.

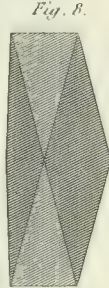


Fig. 8.

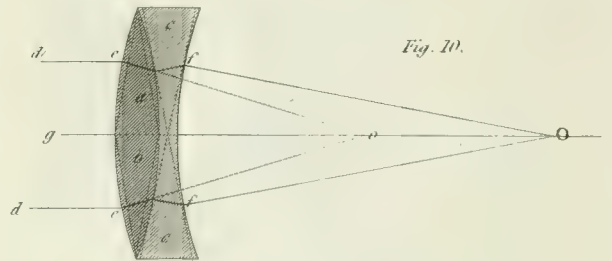


Fig. 10.

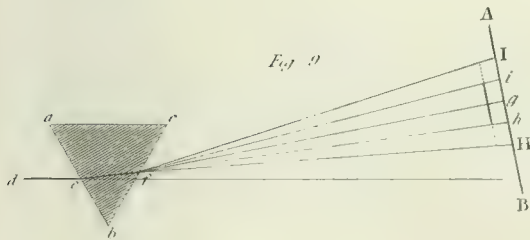


Fig. 9.

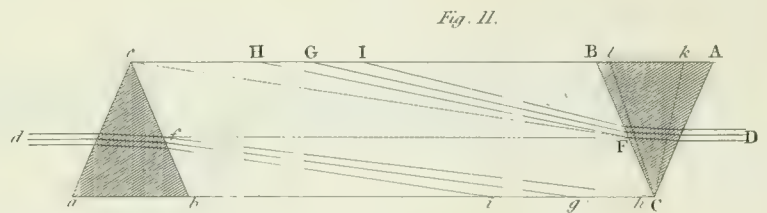


Fig. 11.

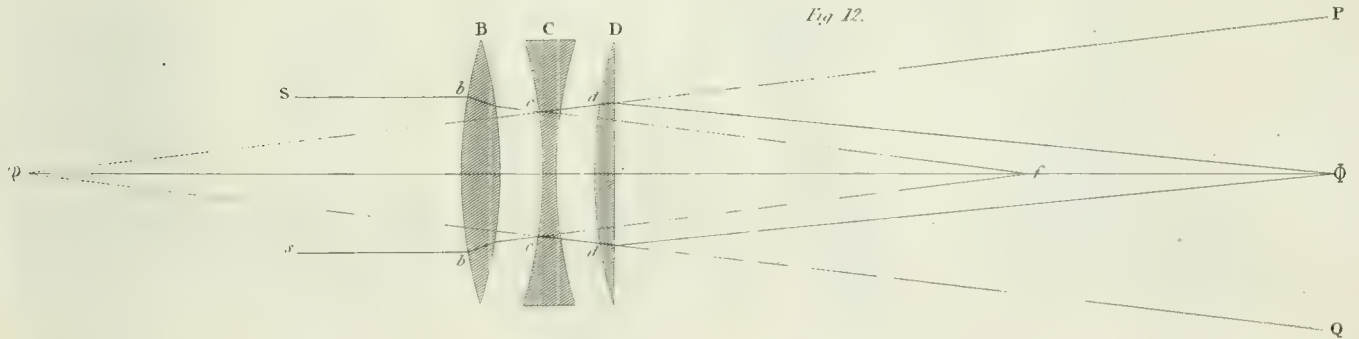


Fig. 12.

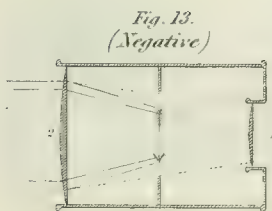


Fig. 13.  
(Negative)

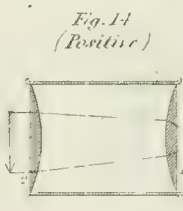


Fig. 14.  
(Positive)



Fig. 15.  
(for Microscopes)

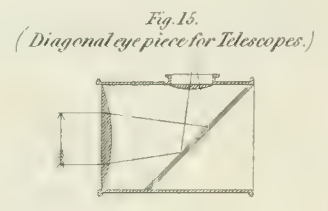
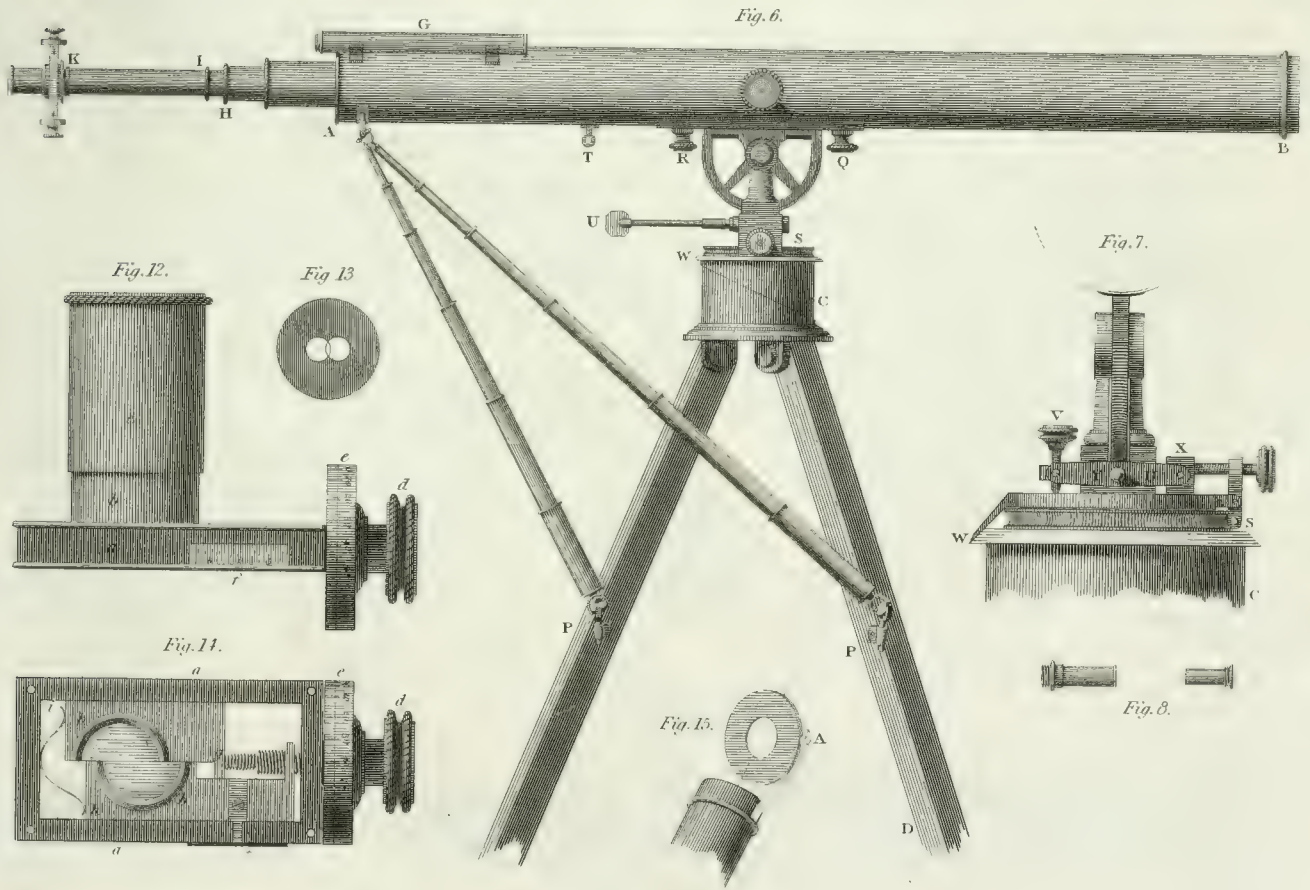
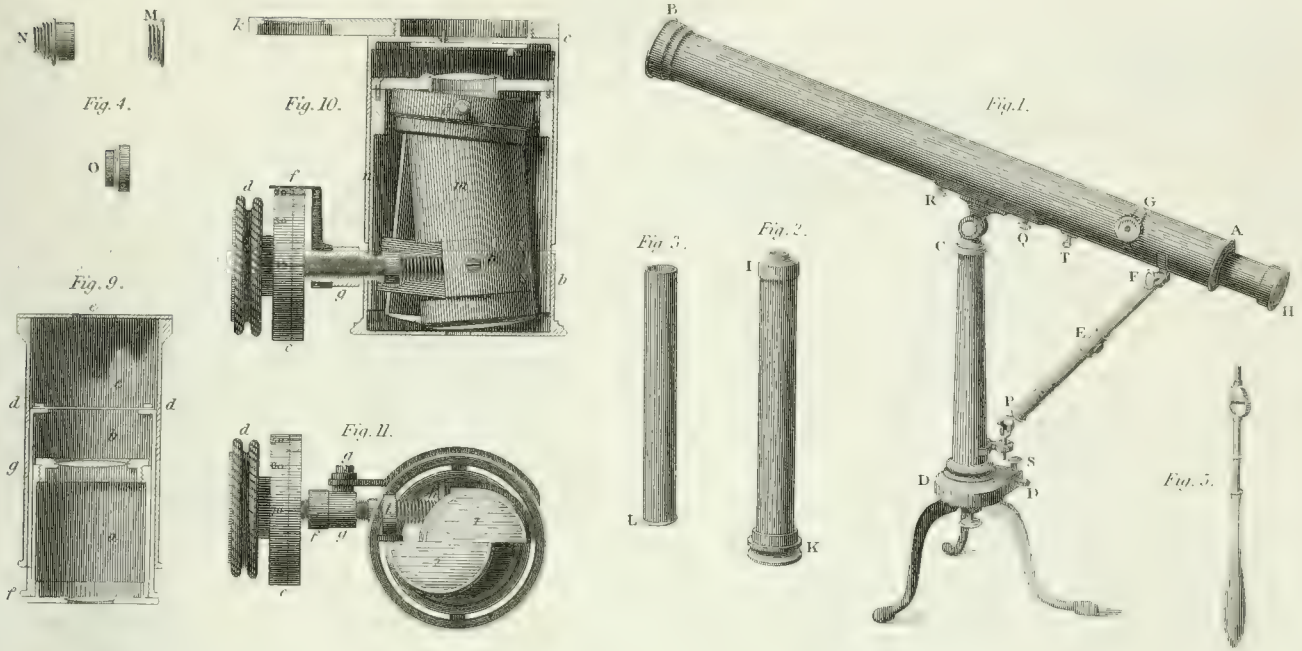
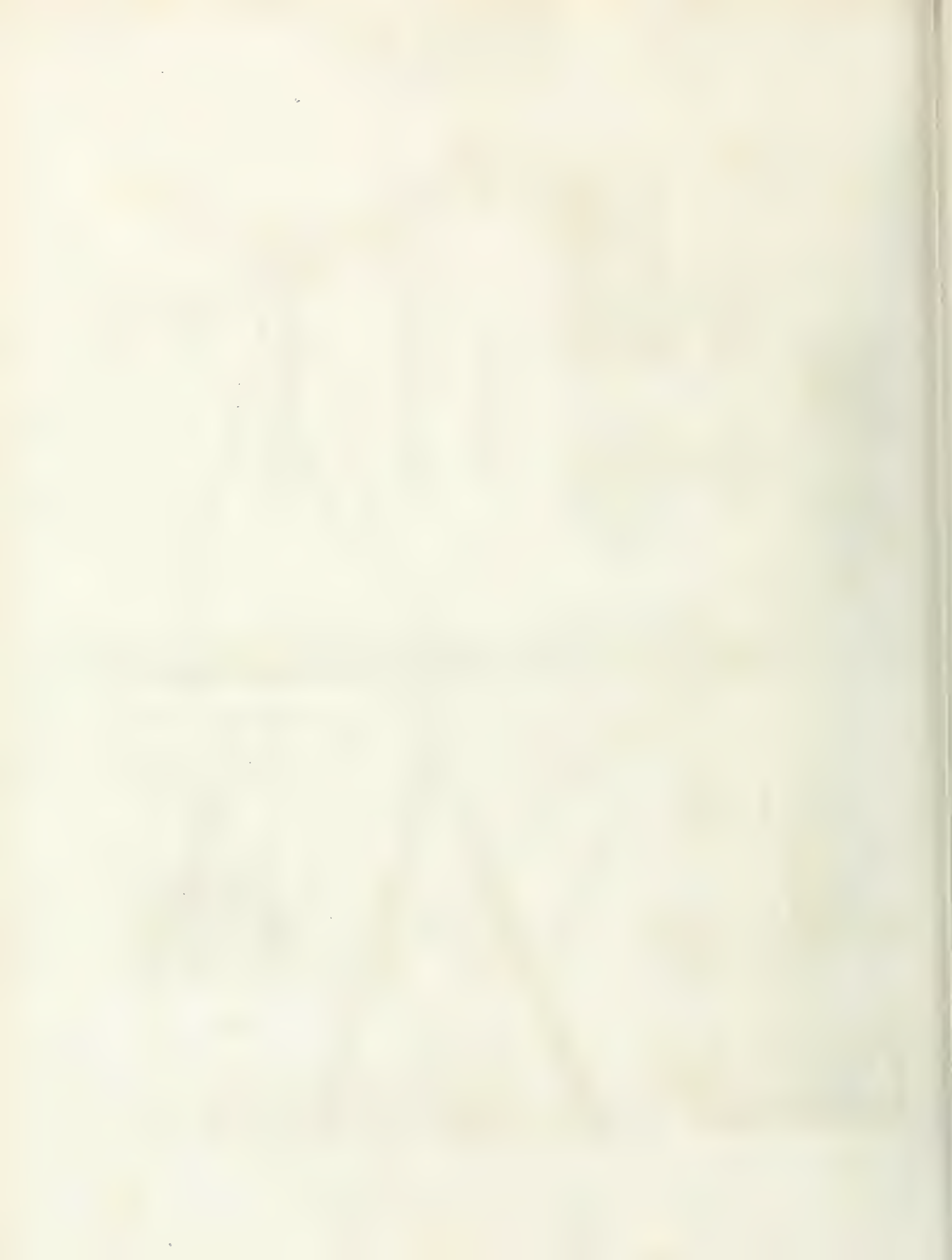


Fig. 16.  
(Diagonal eye piece for Telescopes.)

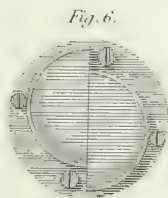
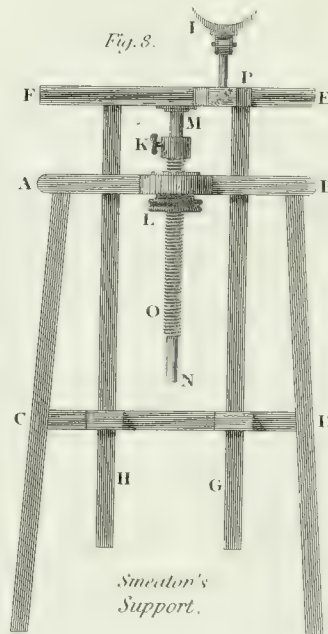
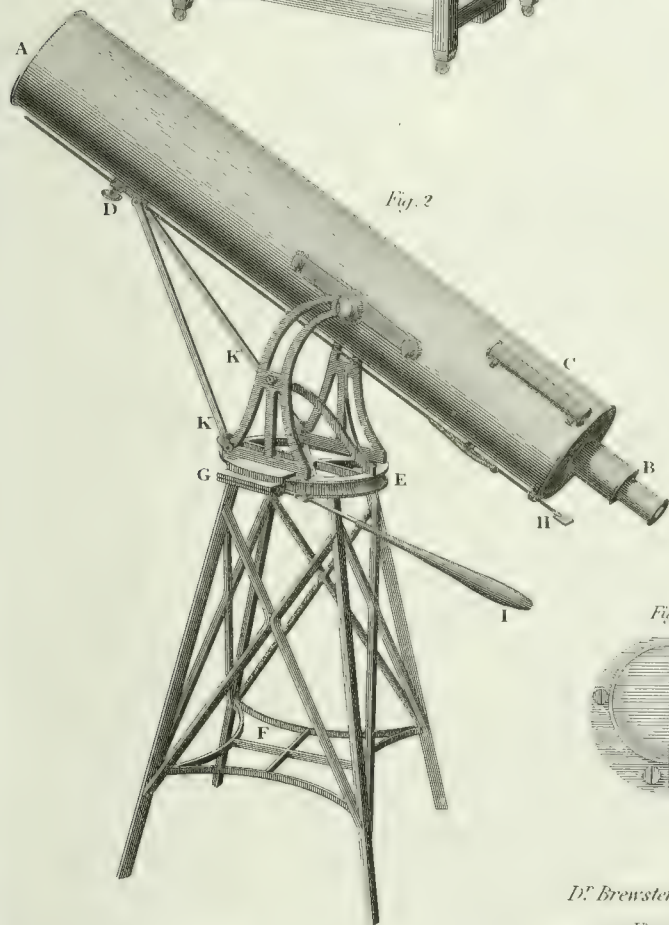
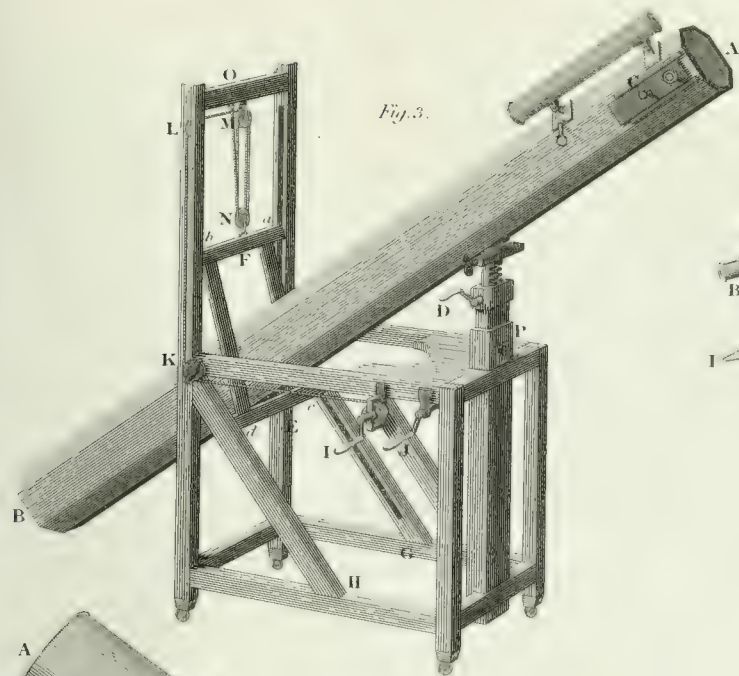




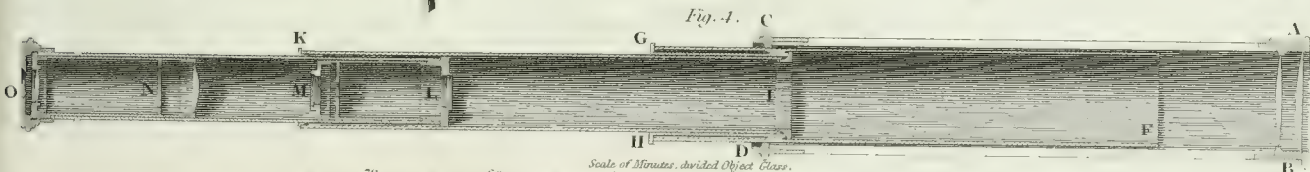




TELESOPES chiefly Reflecting.



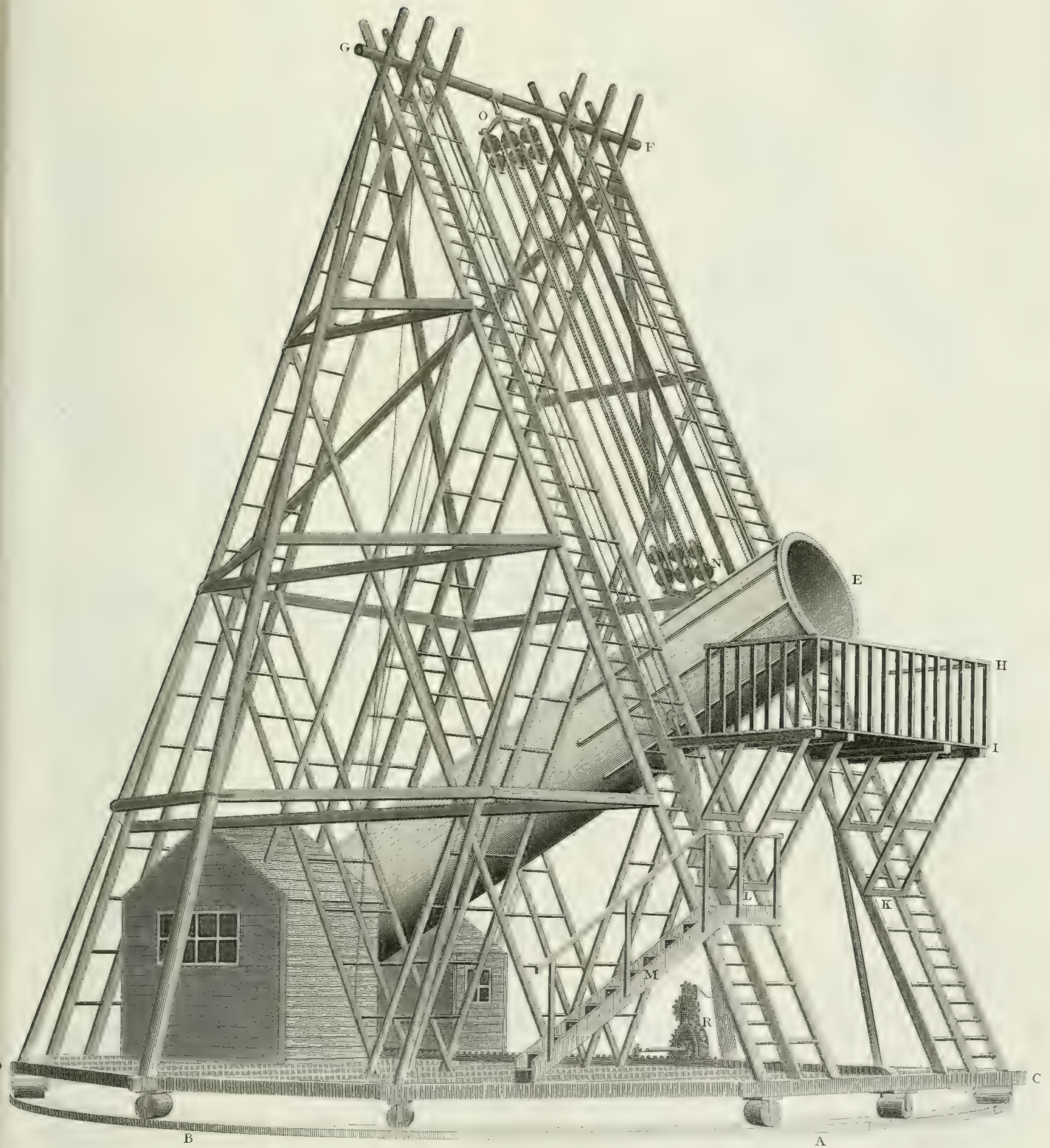
Dr Brewster's Patent.



Scale of Minutes, divided Object Glass.  
Scale of Minutes, single Object Glass.



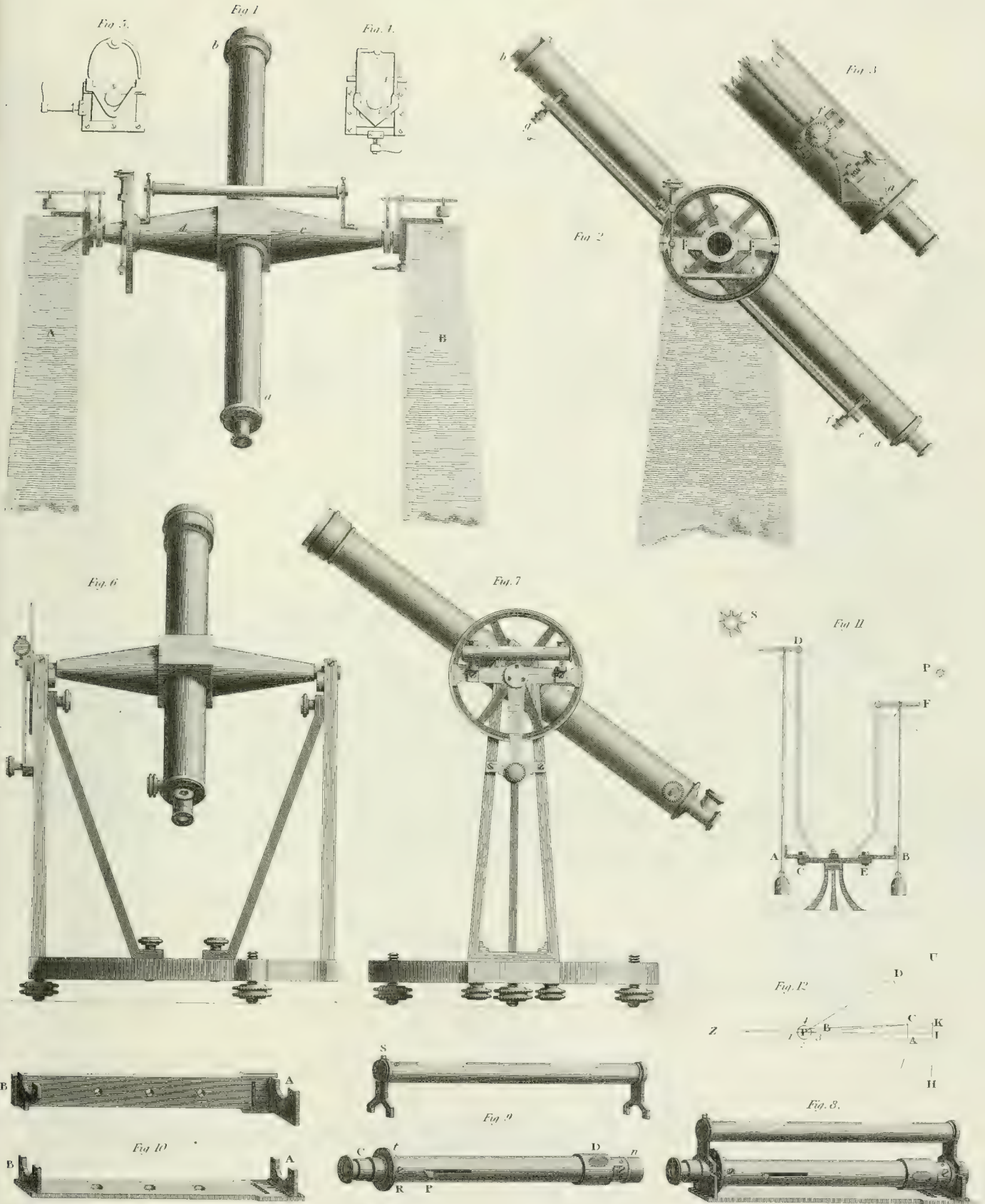
*D<sup>r</sup> HERSCHEL'S,  
Forty Feet Reflecting  
TELESCOPE.*

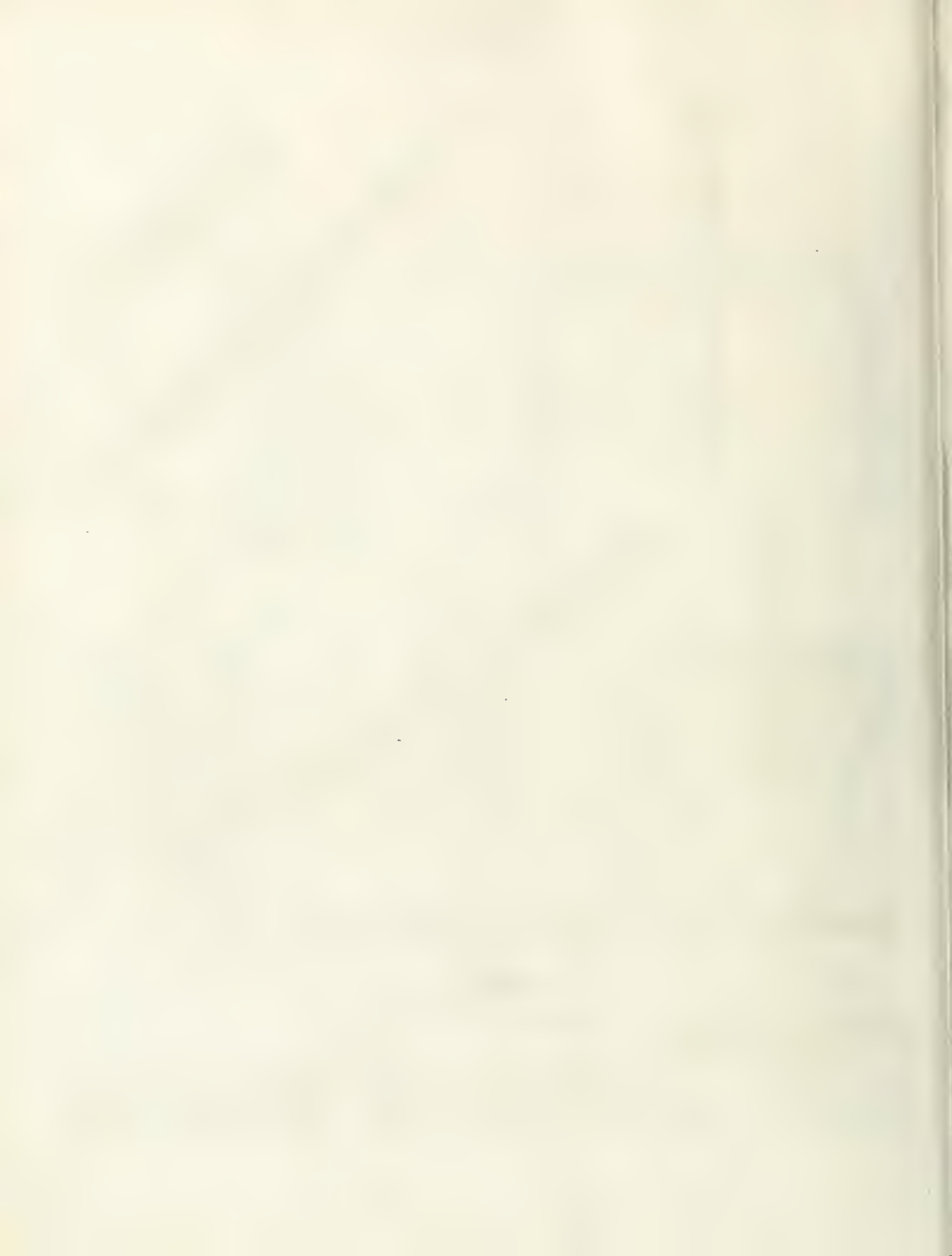












ZENITH SECTOR.

Graham's Zenith Sector.

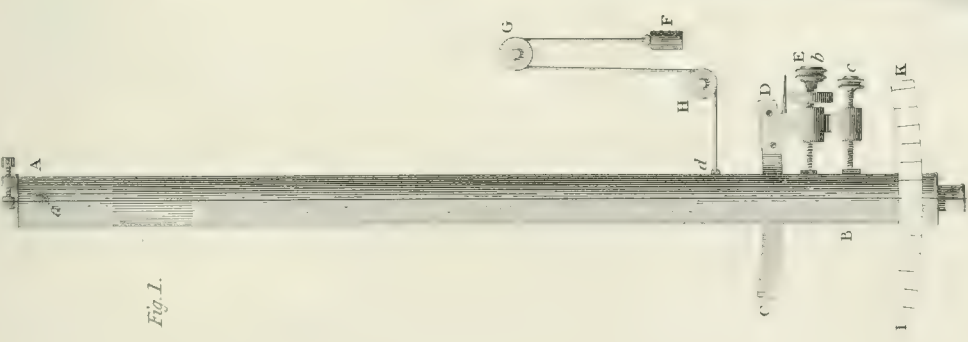


Fig. 1.

Ramsden's Zenith Sector.

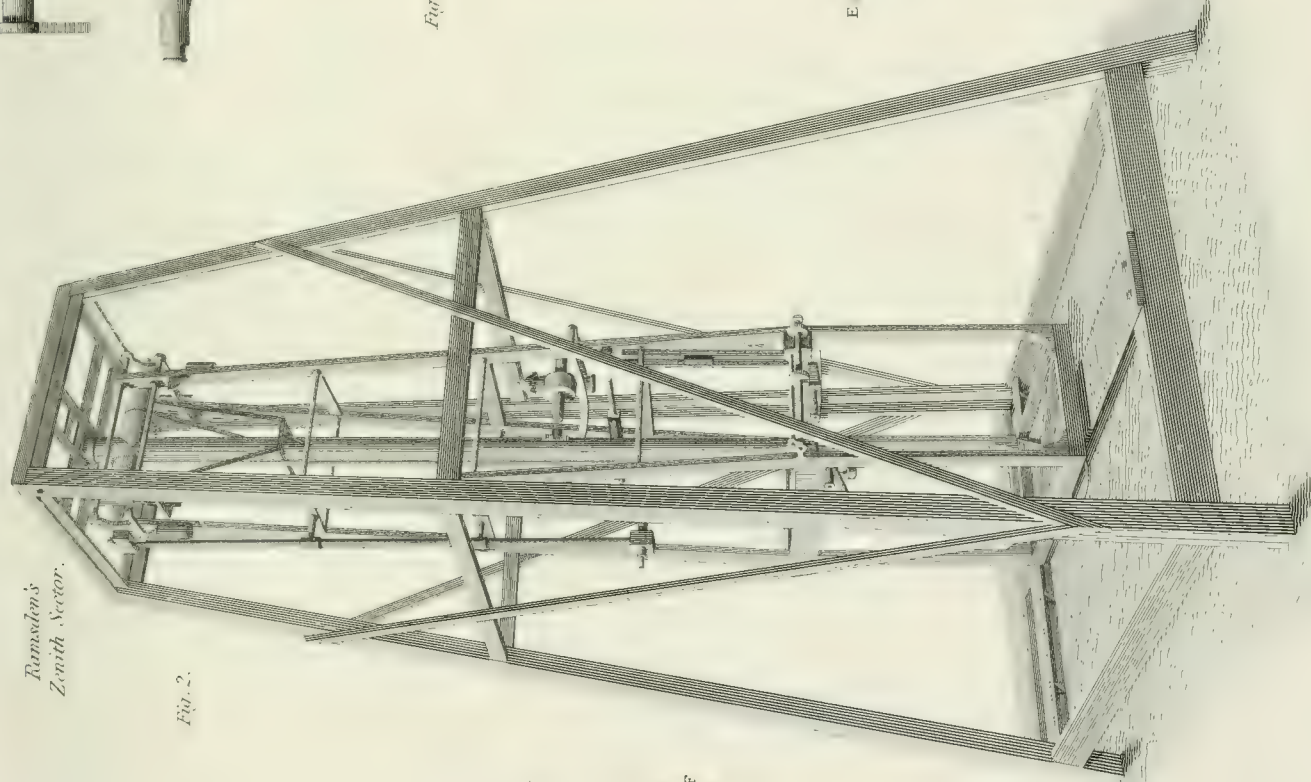


Fig. 2.

Holland's Zenith Micrometer.

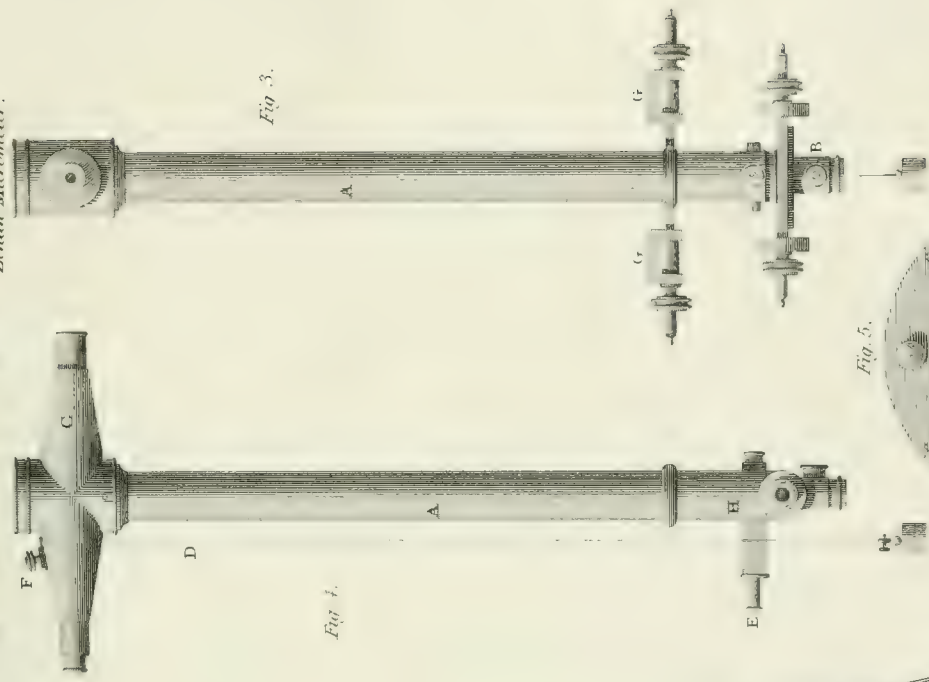


Fig. 3.

Fig. 4.

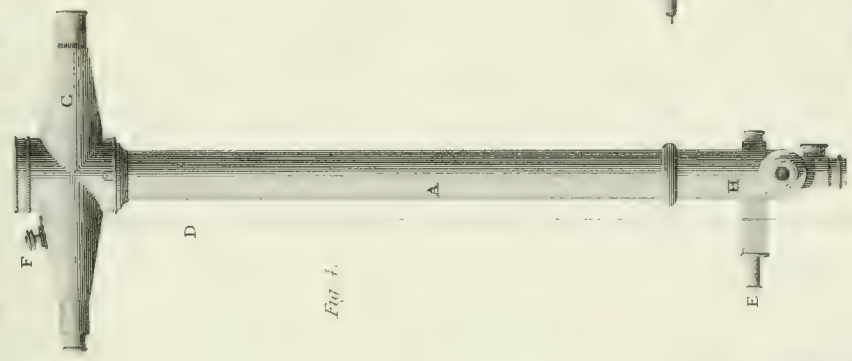


Fig. 5.

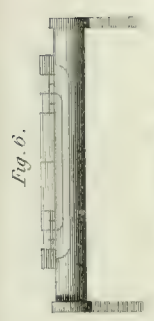
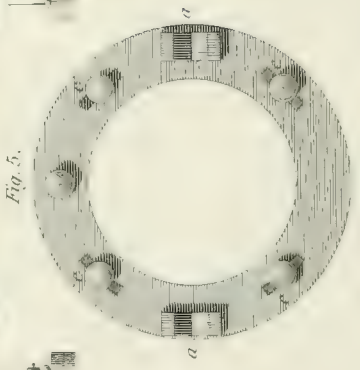
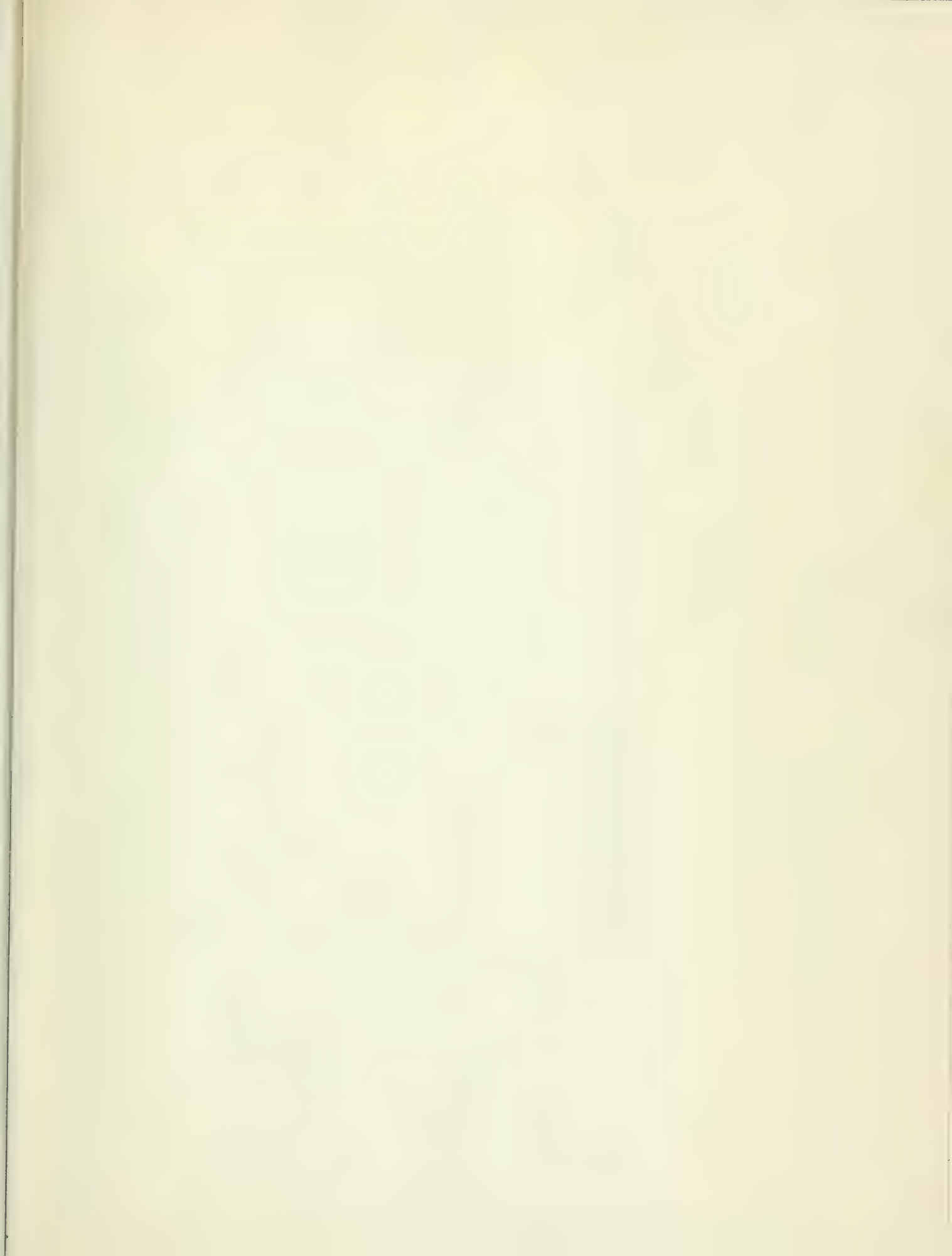


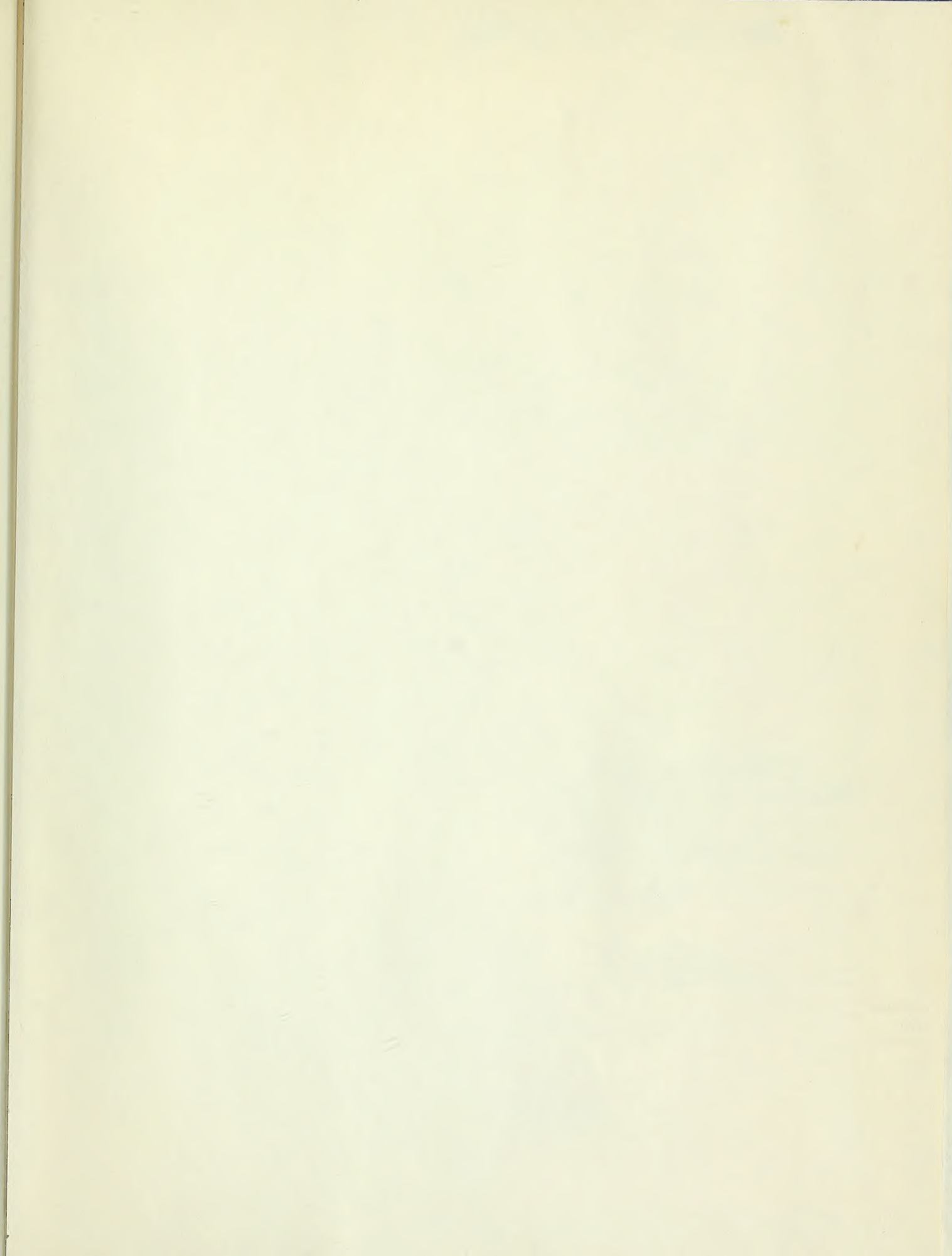
Fig. 6.

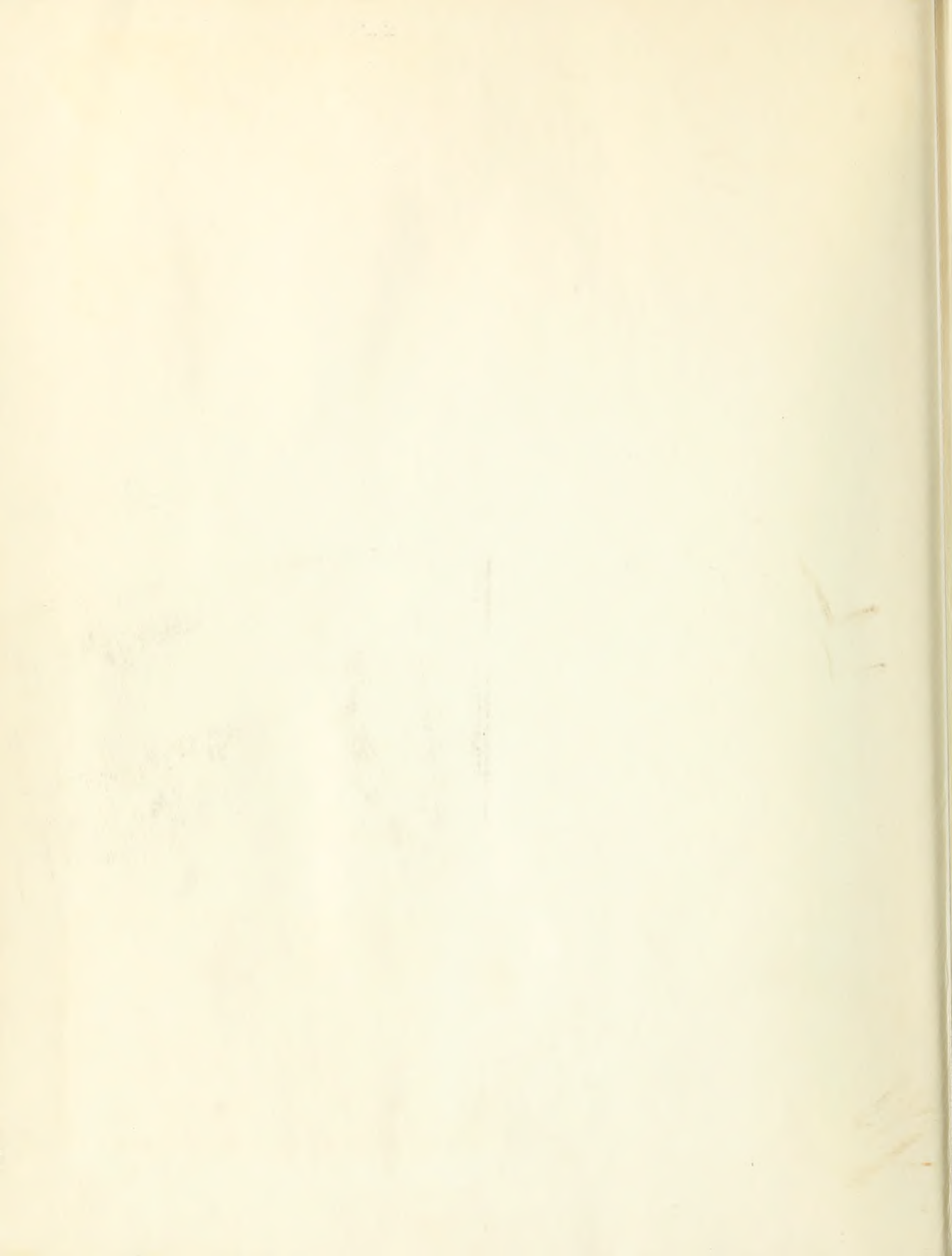














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